



eunethta

EUROPEAN NETWORK FOR HEALTH TECHNOLOGY ASSESSMENT

EUnetHTA Joint Action 3 WP4

Relative effectiveness assessment of pharmaceutical technologies

VENETOCLAX IN COMBINATION WITH A HYPOMETHYLATING AGENT FOR THE TREATMENT OF ADULT PATIENTS WITH NEWLY-DIAGNOSED ACUTE MYELOID LEUKAEMIA (AML) WHO ARE INELIGIBLE FOR INTENSIVE CHEMOTHERAPY.

Project ID: PTJA16
Project Plan

Version 1.0, 28 April 2021
Template version 3.0, May 2020



This Joint Assessment is part of the project / joint action '724130 / EUnetHTA JA3' which has received funding from the European Union's Health Programme (2014-2020)

DOCUMENT HISTORY AND CONTRIBUTORS

Version	Date	Description
V0.1	09/10/2020	First draft
V0.2	28/10/2020	Input from Dedicated Reviewers has been processed
V0.3	26/04/2021	Input from the F2F meeting with (p)MAH, patient organisations and CHMP opinion has been processed
V1.0	28/04/2021	Final Project Plan

Disclaimer

The content of this Project Plan represents a consolidated view based on the consensus within the Authoring Team; it cannot be considered to reflect the views of the European Network for Health Technology Assessment (EUnetHTA), EUnetHTA's participating institutions, the European Commission and/or the Consumers, Health, Agriculture and Food Executive Agency or any other body of the European Union. The European Commission and the Agency do not accept any responsibility for use that may be made of the information it contains.

Assessment team

Author(s)	The Norwegian Medicines Agency (NOMA), Norway
Co-Author(s)	Agency for Medicinal Products and Medical Devices of the Republic of Slovenia (JAZMP), Slovenia
Dedicated Reviewer(s)	Agencia Española de Medicamentos y Productos Sanitarios (AEMPS), Spain HTA Department of State Expert Centre of MoH, Ukraine State Medicines Control Agency of Lithuania (SMCA), Lithuania

For further information on the work distribution and further contributors, please see section 4.1

Conflict of interest

All authors, co-authors, dedicated reviewers, external experts (health care professionals, patients or patient representatives) involved in the production of this assessment have declared they have no conflicts of interest in relation to the technology and comparator(s) assessed according to the EUnetHTA declaration of interest (DOI) form. Conflict of Interest was evaluated following the EUnetHTA Procedure Guidance for handling DOI form (<https://eunetha.eu/doi>).

Copyright:

All rights reserved.

How to cite this assessment

Please cite this Project Plan as follows:

EUnetHTA PTJA16. Authoring Team. Venetoclax in combination with a hypomethylating agent for the treatment of adult patients with newly-diagnosed acute myeloid leukaemia (AML) who are ineligible for intensive chemotherapy. Project Plan. Diemen (The Netherlands): EUnetHTA; 2021. [date of citation]. 15 pages. Report No.: PTJA16. Available from: <https://www.eunetha.eu>

Contact the EUnetHTA Secretariat EUnetHTA@zinl.nl with inquiries about this assessment.

TABLE OF CONTENTS

DOCUMENT HISTORY AND CONTRIBUTORS	2
TABLE OF CONTENTS	3
LIST OF TABLES	4
LIST OF ABBREVIATIONS	5
1 INTRODUCTION	6
2 RESEARCH QUESTION AND SCOPE	7
3 METHODS	9
3.1 <i>INCLUSION CRITERIA</i>	9
3.2 <i>INFORMATION RETRIEVAL</i>	9
3.3 <i>DATA ANALYSIS AND SYNTHESIS</i>	9
3.4 <i>PATIENT INVOLVEMENT</i>	11
4 PROJECT ORGANISATION	12
4.1 <i>PARTICIPANTS</i>	12
4.2 <i>PROJECT STAKEHOLDERS</i>	13
4.3 <i>MILESTONES AND DELIVERABLES</i>	14
5 REFERENCES	15

LIST OF TABLES

Table 2.1 Assessment scope: relevant PICO(s) identified for the planned assessment.	7
Table 4.1 Project participants	12
Table 4.2. Project stakeholders	13
Table 4.3 Milestones and deliverables	14

LIST OF ABBREVIATIONS

AML	Acute myeloid leukemia
CHMP	Committee for Medicinal Products for Human Use
CR	Complete remisson
CRi	Complete remisson with incomplete haematological recovery
CSR	Clinical Study Reports
DOI	Declaration of Interest
DR	Dedicated Reviewers
EFS	Event Free Survival
EMA	European Medicines Agency
EPAR	European Public Assessment Report
EUnetHTA	European Network of Health Technology Assessment
HTA	Health Technology Assessment
HTAi	Health Technology Assessment international
JAZMP	Agency for Medicinal Products and Medical Devices of the Republic of Slovenia
LDAC	Low-dose cytarabine
MDS	Myelodysplastic syndrome
NIPHNO	The Norwegian Institute of Public Health
NOMA	Norwegian Medicines Agency
PICO	Population, intervention, control, outcome
pMAH	Prospective Marketing Authorisation Holder
PTJA	Pharmaceutical Joint Assessment
REA	Relative Effectiveness Assessment
RoB	Risk of Bias
WP4	Work Package 4
ZIN	Zorginstituut Nederland

1 INTRODUCTION

On 20/07/2020, EUnetHTA and the prospective Marketing Authorisation Holder (pMAH) of venetoclax (*AbbVie*) agreed that EUnetHTA will perform a joint relative effectiveness assessment of venetoclax. Venetoclax is indicated in combination with a hypomethylating agent for the treatment of adult patients with newly-diagnosed acute myeloid leukaemia (AML) who are ineligible for intensive chemotherapy. Once finalised this assessment is made publicly available and can be used by European HTA bodies for their national processes supporting reimbursement and pricing decisions.

2 RESEARCH QUESTION AND SCOPE

The aim of this project is to compare the clinical effectiveness and safety of venetoclax in the target patient populations with relevant comparators. The target patient populations and relevant comparators (based on the requirements of the EUnetHTA partners) are defined in the project scope below.

The following table provides the scope identified for the assessment of venetoclax.

Table 2.1 Assessment scope: relevant PICO(s) identified for the planned assessment.

Description	Assessment scope
	PICO 1
Population	<p>Adult patients with newly- diagnosed acute myeloid leukaemia (AML) who are ineligible for intensive chemotherapy.^{a b}</p> <p>ICD-10: C92.0 MeSH-terms: Leukemia, Myeloid, Acute Tree Number(s): C04.557.337.539.275 MeSH Unique ID: D015470</p>
Intervention	<p>Venetoclax (400 mg orally once daily [QD]) in combination with hypomethylating agents (HMAs; azacitidine or decitabine)^c</p> <p>Synonyms for venetoclax: Venclexta, Venclyxto, GDC-0199, ABT-199, RG-7601</p>
Comparison	<ul style="list-style-type: none"> • Azacitidine • Decitabine • Low-dose cytarabin • Glasdegib in combination with LDAC • Best Supportive Care (national differences exists, may include: hydroxyurea, 6-mercaptopurine, 6-thioguanine, low dose melphalan, transfusion support, anti-infective therapies etc.)^d <p>Available MeSH for comparators:</p> <p>Azacitidine Unique ID: D001374 Tree Numbers: D02.145.150 D03.383.742.680.245.217 D13.570.685.245.217 D13.570.800.286.300</p> <p>Decitabine Unique ID: D000077209</p>

^a The relevant population will be accordance with the products final marketing authorisation and the indication maybe adjusted during the EMA procedure.

^b Several subgroups analyses may be considered (de novo and secondary AML including MDS, mutational status, cytogenetic risk etc).

^c Venetoclax will be assessed in accordance with its final marketing authorisation using the dosing and combination defined in the SPC.

^d Heuser M et al. Acute myeloid leukaemia in adult patients: ESMO Clinical Practice Guidelines for diagnosis, treatment and follow up. Annals of oncology: official journal of the European Society for Medical Oncology. 2020.

Döhner H, Estey E, Grimwade D, Amadori S, Appelbaum FR, Büchner T, et al. Diagnosis and management of AML in adults: 2017 ELN recommendations from an international expert panel. Blood. 2017;129(4):424-47.

	<p>Tree Numbers: D02.145.150.500 D03.383.742.680.245.217.500 D13.570.685.245.217.500 D13.570.800.286.300.500</p> <p>Low-dose cytarabine Unique ID: D003561 Tree Numbers: D03.383.742.680.245.453 D13.570.065.300 D13.570.685.245.453</p> <p>Synonyms for glasdegib: PF-04449913</p>
<p>Outcomes</p>	<p><u>Effectiveness:</u></p> <ul style="list-style-type: none"> • Overall survival • Health-related quality of life • Complete remission (CR) • Composite CR: CR plus CR with incomplete haematological recovery (CR + CRi) • Event-free survival (EFS) • Transfusion independency <p><u>Safety:</u></p> <ul style="list-style-type: none"> • Serious adverse events (AEs) • Grade ≥3 AEs, including treatment related AE's • Fatal AEs, including treatment related fatal AE's • Overall AEs • Treatment discontinuations and dose reductions due to AEs
<p>Study type</p>	<p><u>Effectiveness</u></p> <ul style="list-style-type: none"> • Randomised controlled trials (RCT) <p><u>Safety:</u></p> <p><u>If suitable evidence syntheses (SRs/HTA reports) are available:</u></p> <ul style="list-style-type: none"> • Evidence syntheses (SRs/HTA reports); and • Primary studies (as described in next bullet) published after the last search date of the latest SR/HTA document. <p><u>If suitable evidence syntheses (SRs/HTA reports) are NOT available:</u></p> <ul style="list-style-type: none"> • Randomised controlled trials; • Non-randomised controlled trials; • Observational studies;

3 METHODS

The EUnetHTA Guidelines, available at <http://www.eunetha.eu/eunetha-guidelines>, will be consulted throughout the assessment process.

3.1 Inclusion criteria

During the assessment the inclusion criteria applied by the pMAH will be checked to evaluate if they capture the PICO defined for the assessment. In addition, the following criteria are considered relevant for study inclusion:

- Inclusion of non-randomised controlled clinical trials (additional inclusion criterion 1)
- Inclusion of observational studies (additional inclusion criterion 2)

3.2 Information retrieval

The assessment will be based on a Submission Dossier submitted by the pMAH. To allow for a meaningful assessment, the Submission Dossier has to be complete with regard to the available evidence relevant for the research question(s). This requires the systematic identification of all published and unpublished studies relevant to the assessment according to the research question and scope defined in Section 2 [7]. The assessment will investigate whether these requirements are met and thus whether the evidence base for the assessment is complete.

The cut-off date for the pMAH's list of sponsored studies and the searches should be a maximum of three months before submission of the Submission Dossier. This cut-off date will also be relevant for the assessment. There will be no updates of searches beyond this cut-off by the authors of the assessment.

During the assessment, the evidence base with regard to the drug under assessment (venetoclax) provided by the pMAH will be reviewed. Search strategies will be checked for appropriateness and the results of information retrieval included in the pMAH's Submission Dossier will be checked for completeness against a search in study registries and against the studies included in the regulatory Assessment Report. If there are major flaws in the search conducted by the manufacturer, further supplementary searches, as appropriate, will be conducted to check for possible incompleteness of the study pool. The search date, complete search strategies and the results of these searches will be reported in the assessment.

If the evidence provided in the Submission Dossier is incomplete it will not be supplemented by own searches and analyses by the authors of the assessment. The incompleteness and its consequences for the conclusions of the report will be described in the Assessment Report.

3.3 Data analysis and synthesis

The assessment will be based on the data and analyses included in the Submission Dossier prepared by the pMAH. During the assessment, the completeness of data and analyses in the Submission Dossier will be verified. Furthermore, the methods for data analysis and synthesis applied by the pMAH will be checked against the requirements of the Submission Dossier and applicable EUnetHTA Guidelines and assessed with regard to scientific validity. The results of this assessment and the results of the included studies, as appropriate, will be presented in the Assessment Report according to the research questions defined in Section 2.

3.3.1 Data extraction

Information used for the assessment of benefits and harms will be extracted from the Submission Dossier and verified against the Clinical Study Reports (CSR) or other original documentation provided in the Submission Dossier.

3.3.2 Assessment of risk of bias

The assessment of risk of bias (if provided) should follow the criteria described in the two EUnetHTA guidelines on the internal validity of randomised controlled trials [8] and non-randomised studies on interventions [9]. The risk of bias of the results of each included study should be described separately for each patient-relevant outcome. For this purpose, risk of bias should be assessed at the study level as well as at the outcome level.

If the outcome-specific risk of bias is classified as high for an outcome, this should not lead to exclusion of the corresponding data. Rather, the risk-of-bias classification should inform the discussion on heterogeneous study results and the determination of certainty of results.

The methods and outcome of the risk-of-bias assessment if presented in the Submission Dossier will be evaluated by the authors only for outcomes (and studies) that are included based on the research question(s) (PICO). The result of the risk-of-bias assessment will be presented in the Assessment Report.

3.3.3 Description of design and results of individual studies

During the assessment, the information in the Submission Dossier on the study design, study methods, populations, endpoints (patient relevance, validity, and operationalization) and study results will be evaluated. The results of this evaluation will be presented, used for identification of relevant analyses and considered for the conclusions of the Assessment Report.

3.3.4 Synthesis of study results

Meta-analyses

If several studies are available for the same PICO, they should be quantitatively pooled in a meta-analysis if they are sufficiently comparable from a clinical (e.g. patient groups) and methodological (e.g. study design) point of view [10].

During the assessment, the methods applied for the meta-analyses presented in the Submission Dossier, and, if applicable, the justification for deviations from the procedures described above will be evaluated. The meta-analyses relevant for the research questions (see Section 2) will be presented in the Assessment Report.

Sensitivity analyses

To evaluate the robustness of results, sensitivity analyses with regard to methodological factors presented in the Submission Dossier and the corresponding methods applied will be evaluated. These methodological factors arise from decisions made within the framework of the retrieval and assessment of information, for example, the specification of cut-offs for the time point of data collection or the choice of effect measure. The sensitivity analysis should in particular consider the classification of the risk of bias of study results. The result of the sensitivity analysis can affect the assessment of the certainty of results.

Subgroup analyses and other effect modifiers

During the assessment, the subgroup analyses examining potential effect modifiers presented in the Submission Dossier and the corresponding methods applied will be evaluated. The evaluation also includes the justification for the choice of cut-offs if quantitative characteristics were categorized. If potential effect modifiers are identified, the conclusions inferred from the effects observed in the complete patient group can possibly be formulated more precisely.

Indirect comparisons

If indirect comparisons are included in the Submission Dossier, the methods applied, including the justification for the methods applied will be evaluated [10]. The indirect comparisons relevant for the research questions (see Section 2) will be presented and examined in the Assessment Report.

3.4 Patient involvement

At the start of this Joint Assessment an open call for patient input was published on the EUnetHTA website. This open call specifically asked patient organisations to answer the questions, as they have the position to collect and present patient's and care-givers' views and experiences by engaging with a wide range of patients and their careers.

The open call used by EUnetHTA asks general questions to elicit patients' views on living with the disease, important outcomes to be considered in this assessment and expectations about the drug under assessment. The questions are based on the HTAi questionnaire template. For more information on the development of the HTAi questionnaire template please see [their website](#).

European and national patient organisations had to provide an organisational perspective on the questions in English. In all parts of the open call, the term 'patient' refers to anyone living with, or who has lived with, the condition for which the new medicine is indicated.

An open call for patient input was published on the EUnetHTA website on the 21st September 2020. The questions were based on the HTA international (HTAi) questionnaire template that was adapted for this project and covered the following topics:

- The impact of AML on patients' quality of life;
- Impact of AML on carers/unpaid care-givers;
- Experiences with currently available treatment options;
- Expectations/requirements for a new medicine for AML.

Eight patient organisations provided input in response to the Open Call for Patient Input published on 21st of September 2020: Association of Cancer Patients in Finland; MOHA, Hungary; Blodkreftforeningen, Norway; Hrvatska udruga leukemija i limfomi (HULL), Croatia; LYLE - Patient organization for lymphoma, leukemia and MDS, Denmark; Diagnoza leukemie, Czech Republic; Leukaemia Care, United Kingdom; Deutsche Leukämie- & Lymphom-Hilfe, Germany.

The information gathered from the open call was used to inform the scope of this assessment.

4 PROJECT ORGANISATION

4.1 Participants

Table 2.1 Project participants

Role in the project	Agency	Country	Distribution of work
Assessment Team			
Author	The Norwegian Medicines Agency (NOMA)	Norway	Develop first draft and final version of EUnetHTA project plan with co-author. Methods section: Analysis of included studies. Review of statistical analyses presented in submission dossier. Results section: relative effectiveness assessment (EFF domains). Prepare draft for DR and adapt documents according to reviewers comments together with co-authors. Answer comments of expert and manufacturer together with co-authors. Prepare the final assessment including a final summary of the assessment.
Co-Author	Agency for Medicinal Products and Medical Devices of the Republic of Slovenia (JAZMP)	Slovenia	Develop first draft and final version of EUnetHTA project plan with authors. Prepare CUR and TEC Domains. Safety assessment (SAF domain). Patient Involvement. Support authors in Summary and Discussion sections. Support authors to adapt the JA according to reviewers comments. Support author in answering comments of expert and manufacturer.
Information specialist	NIPHNO	Norway	Review of information retrieval, conduct of searches required for checking completeness of information retrieval in Submission Dossier; reporting information retrieval check in the Assessment Report. GRADE and RoB assessment.
Statistical specialist	The Norwegian Medicines Agency (NOMA)	Norway	Expert review of statistical analyses presented in Submission Dossier, statistical support for authors.
Dedicated Reviewer	Spanish Agency of Medicine and Sanitary Products (AEMPS)	Spain	Review draft project plan and first draft of assessment report.
Dedicated Reviewer	HTA Department of State Expert Centre of MoH, Ukraine	Ukraine	Review draft project plan and first draft of assessment report.
Dedicated Reviewer	State Medicines Control Agency of Lithuania (SMCA)	Lithuania	Review draft project plan and first draft of assessment report.
Contributors			
External expert	Expert recruitment ongoing		Review of the scope of the assessment and the draft Assessment Report. In addition, answer specific question during the assessment.
Patient organisations	Association of Cancer Patients	Finland	Complete the EUnetHTA open call in order to inform the scope of the assessment.

Role in the project	Agency	Country	Distribution of work
	MOHA	Hungary	
	Blodkreftforeningen	Norway	
	Hrvatska udruga leukemija i limfomi (HULL); LYLE	Croatia	
	Patient organization for lymphoma, leukemia and MDS	Denmark	
	Diagnoza leukemie	Czech Republic	
	Leukaemia Care	United Kingdom	
	Deutsche Leukämie- & Lymphom-Hilfe	Germany	
Medical Editor	<i>TBD</i>	<i>TBD</i>	Responsible for the medical editing of the report
Project Manager	Zorginstituut Nederland (ZIN)	Netherlands	Coordination between involved parties throughout the assessment period

4.2 Project stakeholders

Table 3.2. Project stakeholders

Organisation	Role in the project
AbbVie	Manufacturer [MAH]; Completing the Submission Dossier; Fact Check of the draft Assessment Report.

4.3 Milestones and deliverables

Table 4.3 Milestones and deliverables

Milestones/Deliverables	Start date	End date
Project duration	20-07-2020	07-07-2021
Letter of Intent received	20-07-2020	
Scoping phase	14-09-2020	28-01-2021
Scoping PICO and development of first draft Project Plan	14-09-2020	09-10-2020
PICO survey – request relevant PICO from Member States	23-09-2020	01-10-2020
Adapt draft Project Plan based on PICO survey	14-09-2020	09-10-2020
Open call for patient input	14-09-2020	30-10-2020
Review of first draft Project Plan	12-10-2020	16-10-2020
Development of second draft Project Plan & answers to DR comments	19-10-2020	23-10-2020
Receive Scoping F2F meeting documents from pMAH	04-10-2020	
Pre-scoping e-meeting with the Assessment Team	20-10-2020	
Share discussion topics for Scoping F2F Meeting	28-10-2020	
Scoping F2F meeting with manufacturer	04-11-2020	
Share action points from F2F meeting with manufacturer	09-11-2020	
(pre-)Assessment phase	08-12-2020	22-04-2021
Receive Submission Dossier from pMAH	08-12-2020	
Check formal completeness of Submission Dossier	09-12-2020	18-12-2020
Receive missing items and comments on the requests from the formal completeness check from pMAH	08-01-2021	
Start writing Assessment (background, methods)	08-03-2021	22-04-2021
<i>CHMP opinion</i>	22-04-2021	
Finalize Project Plan	28-04-2021	
Optional: Grace period to revise Submission Dossier by pMAH (based on CHMP opinion)	TBD	
Assessment phase	08-04-2021	07-07-2021
Writing first draft Joint Assessment	08-04-2021	10-05-2021
Review by DRs (and if applicable include experts)	11-05-2021	20-05-2021
Writing second draft Joint Assessment	21-05-2021	04-06-2021
Medical Editing	07-06-2021	11-06-2021
Fact Check by pMAH (parallel with medical editing)	07-06-2021	11-06-2021
Final Assessment + response Fact Check	21-06-2021	
<i>Expected EPAR</i>	01-07-2021	
Publication final version of rapid assessment	06-07-2021	07-07-2021

5 REFERENCES

1. European Network For Health Technology Assessment (EUnetHTA). *Comparators & Comparisons: Criteria for the choice of the most appropriate comparator(s)* [online]. November 2015 [Access: 14.03.2018]. URL: https://www.eunethta.eu/wp-content/uploads/2018/03/Criteria_WP7-SG3-GL-choice_of_comparator_amend2015.pdf.
2. European Network For Health Technology Assessment (EUnetHTA). *Endpoints used for Relative Effectiveness Assessment: Clinical Endpoints* [online]. November 2015 [Access: 14.03.2018]. URL: https://www.eunethta.eu/wp-content/uploads/2018/02/WP7-SG3-GL-clin_endpoints_amend2015.pdf.
3. European Network For Health Technology Assessment (EUnetHTA). *Endpoints used in Relative Effectiveness Assessment: Surrogate Endpoints* [online]. November 2015 [Access: 14.03.2018]. URL: https://www.eunethta.eu/wp-content/uploads/2018/03/surrogate_endpoints.pdf.
4. European Network For Health Technology Assessment (EUnetHTA). *Endpoints used for Relative Effectiveness Assessment: Composite endpoints* [online]. November 2015 [Access: 14.03.2018]. URL: https://www.eunethta.eu/wp-content/uploads/2018/03/composite_endpoints.pdf.
5. European Network For Health Technology Assessment (EUnetHTA). *Endpoints used for Relative Effectiveness Assessment: Health related quality of life and utility measures* [online]. November 2015 [Access: 14.03.2018]. URL: https://www.eunethta.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.
6. European Network For Health Technology Assessment (EUnetHTA). *Endpoints used in Relative Effectiveness Assessment: Safety* [online]. November 2015 [Access: 14.03.2018]. URL: https://www.eunethta.eu/wp-content/uploads/2018/03/WP7-SG3-GL-safety_amend2015.pdf.
7. European Network For Health Technology Assessment (EUnetHTA). *Process of information retrieval for systematic reviews and health technology assessments on clinical effectiveness* [online]. December 2017 [Access : 14.03.2018]. URL: https://www.eunethta.eu/wp-content/uploads/2018/01/Guideline_Information_Retrieval_V1-2_2017.pdf.
8. European Network For Health Technology Assessment (EUnetHTA). *Levels of Evidence - Internal validity of randomised controlled trials* [online]. November 2015 [Access : 14.03.2018]. URL: https://www.eunethta.eu/wp-content/uploads/2018/01/16_WP7-SG3-GL-int_val_RCTs_amend2015.pdf.
9. European Network For Health Technology Assessment (EUnetHTA). *Internal validity of non-randomised studies (NRS) on interventions* [online]. July 2015 [Access : 14.03.2018]. URL: https://www.eunethta.eu/wp-content/uploads/2018/01/Internal-validity-of-non-randomised-studies-NRS-on-interventions_Guideline_Final-Jul-2015.pdf.
10. European Network For Health Technology Assessment (EUnetHTA). *Comparators & Comparisons: Direct and indirect comparisons* [online]. November 2015 [Access: 14.03.2018]. URL: https://www.eunethta.eu/wp-content/uploads/2018/03/Direct_comparators_comparisons.pdf.