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HTA41

INTRODUCTION

On 12 January 2025, European Union (EU) Joint Clinical Assessment (JCA) came into force, with the aim of standardising and streamlining the clinical evaluation of new oncology drugs and advanced therapy medicinal products (ATMPs) across the EU.¹ As part of the JCA process, a PICO (Population, Intervention, Comparator, Outcome) survey is conducted with EU member states to ensure that the scope of the assessment meets their needs.²

In 2023, EUnetHTA 21 conducted scoping surveys with EU member states for three products:

- PLUVICTO® (lutetium [177Lu] vipivotide tetraxetan), a radiopharmaceutical, for prostate-specific membrane antigen positive, metastatic, castration-resistant, prostate cancer (PSMA+ mCRPC)³
- EBVALLO® (tabelecleucel), an ATMP used to treat adults and children with Epstein-Barr virus positive post-transplant lymphoproliferative disease (EBV+ PTLD)⁴
- POMBILITI™ (cipaglucosidase alfa), initially designated as an orphan drug (designation withdrawn at the time of marketing authorisation), used to treat adults with late-onset Pompe disease⁵

All three products had already obtained a positive opinion from the Committee for Medicinal Products for Human Use (CHMP) within the European Medicines Agency (EMA).³⁻⁵

OBJECTIVE

We aimed to assess the alignment between PICOs identified in EUnetHTA 21 scoping surveys for PLUVICTO®, EBVALLO® and POMBILITI™ published in 2023, versus PICOs considered in the actual health technology assessments (HTAs) of these products across different member states.

METHODS

Published HTAs for PLUVICTO®, EBVALLO® and POMBILITI™ from across EU member states, were identified using GlobalData Plc's Drug Pricing (POLI) and HTA database (up to April 10, 2025).⁶ Published HTAs were reviewed, translated where appropriate, and PICOs covered in the HTAs were extracted into a data summary sheet. Similarities and differences between the HTA PICOs across member states were reconciled and consolidated following guidance published by the EU member state HTA Coordination Group (HTA CG).² Actual PICOs were compared to the consolidated PICOs identified in the EUnetHTA 21 scoping exercise.

RESULTS

In total, 8 HTAs for PLUVICTO[®], 6 HTAs for EBVALLO[®], and 7 HTAs for POMBILITI™ were identified across twelve member states: Austria, Czechia, Denmark, Finland, France, Germany, Ireland, Norway, Poland, Portugal, Romania, and Spain (**Table 1**).

Table 1 Actual HTAs identified for PLUVICTO®, EBVALLO® and POMBILITI™

Product	Markets											Number of HTAs included		
	Austria	Czechia	Denmark	Finland	France	Germany	Ireland	Italy*	Norway	Poland	Portugal	Romania	Spain	
PLUVICTO®				√		√	√	8/9						
EBVALLO®			√	√	√	√		√		√			✓	6/7
POMBILITI™	√	✓	✓		✓	✓		√			✓		√	7/8

*Italy excluded due to insufficient detail on PICOs utilised during the assessment

After consolidation, 5 PICOs were identified from actual HTAs for PLUVICTO® compared to 6 identified in the EUnetHTA 21 scoping exercise (**Table 2**). PICOs from EUnetHTA 21 were well aligned with actual HTAs; however, EUnetHTA 21 did not to consolidate "individual therapy" or "physician's choice" of therapy for the full population.

For EBVALLO®, 3 PICOs were included in actual HTAs compared to 5 in the EUnetHTA 21 scoping exercise (**Table 3**). This was due to HTAs not focussing on specific individual comparators as they all considered there to be no clear standard of care for patients and therefore individualised therapy was considered appropriate and therefore no separate subpopulations for patients who might be eligible or ineligible for chemotherapy.

For POMBILITI™, 6 PICOs were included in actual HTAs compared to 9 PICOs identified in the EUnetHTA 21 scoping exercise (**Table 4**). Although there was alignment in terms of populations (ERT-

(ICR); Symptomatic skeletal event (including time to first skeletal event); PSA levels; Pain measured by a patient-reported outcome (PRO) measure such as a numeric rating scale or a visual analogue

scale (VAS); Fatigue; Health-related QoL measured preferably by generic and disease specific questionnaires i.e. EORTC QLQ C30 plus, if possible; EORTC PR25 or FACT-P; FACT-G; Health status

measured preferably by EQ-5D-5L; Any other patient centred outcome measured by PRO measures; AEs; SAEs (Grade ≥ 3); Discontinuation and interruption due to AEs; AESIs; SUSARs

Table 2 Comparison between actual HTAs for PLUVICTO® vs consolidated PICOs from EUnetHTA 21

nonviotion) DICO E (full nonviotion) DICO C (full nonviotion)						
population) PICO 5 (full population) PICO 6 (full population)						
Adult patients with progressive PSMA-positive mCRPC who have been treated with AR pathway inhibition and taxane-based chemotherapy Adult patients with progressive PSMA-positive mCRPC who have been treated with AR pathway inhibition and taxane-based chemotherapy Adult patients with progressive PSMA-positive mCRPC who have been treated with AR pathway inhibition and taxane-based chemotherapy Adult patients with progressive PSMA-positive mCRPC who have been treated with AR pathway inhibition and taxane-based chemotherapy						
PLUVICTO						
Individualized treatment, taking into account previous therapies, with selection of abiraterone+prednisone/ prednisolone*, enzalutamide*, cabazitaxel* Physician choice for control arm, with at least cabazitaxel*, or abiraterone+prednisone/ prednisolone*, or enzalutamide*, or apalutamide*, or olaparib*, or Radium-223*, or BSC						
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*ADT is the standard in the treatment of prostate cancer relapse or metastatic disease.

Treatment discontinuations: Symptomatic skeletal-related events, Deaths

Table 3 Comparison between actual HTAs for EBVALLO® vs consolidated PICOs from EUnetHTA 21

serum prostate-specific antigen [PSA]) assessment; Pain (BPI-SF); Quality of life (QoL); EQ-5D-3L; EQ-5D-VAS; Functional Assessment of Cancer Therapy -

Prostate (FACT-P); Duration of treatment; All-causality and treatment-related adverse events (AEs); Serious adverse events (SAEs); SAE CTCAE Grade 3 or 4;

EBVALLO® PICOs from actual HTAs			EBVALLO® consolidated PICOs from EUnetHTA 21								
PICO 1 (subpopulation)	PICO 2 (subpopulation) PICO 3 (full population)		PICO 1 (subpopulation)	PICO 2 (subpopulation)	PICO 3 (subpopulation)	PICO 4 (subpopulation)	PICO 5 (full population)				
Patients who had prior solid organ transplant (SOT)	Patients who had prior haematopoietic stem cell transplantation (HSCT) Adult and paediatric patients 2 years of age and older with relapsed or refractory EBV+ PTLD who have received ≥ 1 prior therapy. For SOT patients, prior therapy includes chemotherapy unless chemotherapy is inappropriate		Adult and paediatric patients 2 years of age and older with relapsed or refractory EBV+ PTLD who have received ≥ 1 prior therapy after a solid organ transplantation, who have received at least one prior therapy and are eligible for chemotherapy	Adult and paediatric patients 2 years of age and older with relapsed or refractory EBV+ PTLD who have received ≥ 1 prior therapy after a solid organ transplantation, who have received at least one prior therapy and are eligible for chemotherapy	Adult and paediatric patients 2 years of age and older with relapsed or refractory EBV+ PTLD who have received ≥ 1 prior therapy after a haematopoietic stem cell transplantation, who have received rituximab and are eligible for chemotherapy	Adult and paediatric patients 2 years of age and older with relapsed or refractory EBV+ PTLD who have received ≥ 1 prior therapy who have received rituximab and who are ineligible for chemotherapy	Adult and paediatric patients 2 years of age and older with relapsed or refractory EBV+ PTLD who have received ≥ 1 prior therapy. For SOT patients, prior therapy includes chemotherapy unless chemotherapy is inappropriate				
Tabelecleucel			Tabelecleucel								
Patient individualised therapy as there is no crituximab monotherapy, BSC, and/ or other operations of the second	· · · · · · · · · · · · · · · · · · ·		Any of the following alternative (compared to the first chemotherapy-regimen) chemotherapy-regimens: CHO(E)P ± rituximab (-21) (cyclophosphamide, doxorubicine, vincristine, predniso(lo)ne), or cyclophosphamide + prednisolone ± rituximab, or c(R-)CE, HD-MTX ± rituximab, ProMACE CytaBOM	Individualized treatment. The following comparators are deemed appropriate: CHO(E)P ± rituximab (-21), cyclophosphamide + prednisolone ± rituximab, (R-)CE, HD-MTX ± rituximab, ProMACE CytaBOM	CHO(E)P ± rituximab	Individualized treatment CHOP (including CHOP 21) ± rituximab, ACVBP ± rituximab, cyclophosphamide ± rituximab, cyclophosphamide + vincristine + prednisone ± rituximab, DA-EPOCH ± rituximab, R-DHAP, R-ICE, (R)-GemOx; (R)-Benda-Polatuzumab vedotin; methotrexat ± rituximab; BSC					
OS; Treatment response (ORR; PR and CR); due to AEs; Adverse events of special interes loss/rejection episodes)	· · ·	, , , , , , , , , , , , , , , , , , , ,	OS; Disease specific survival; Symptoms like symptomatic lymphadenopathy, B symptoms (fever, nights sweats, unintentional weight loss, infections, viremia; ORR (partial and complete response); Treatment response (ORR, partial response [PR] and complete response [CR], including PET); DoR; PFS; Event-free survival (EFS; including initiation of new treatments); QoL measured preferably by the EORTC QLQ C30; EORTC PR 25; FACT-P; Health status measured by the EQ-5D; Any other patient-centred outcome, assessed by generic or disease specific patient-reported outcome measures; AEs (total); SAEs; SAEs (Grade ≥ 3), Discontinuation due to AEs; AESI e.g. GvHD occurrence; Transplant rejection (allograft loss/rejection episodes)								

Table 4 Comparison between actual HTAs for POMBILITI™ vs consolidated PICOs from EUnetHTA 21

POMBILITI™ PICOs from actual HTAs						POMBILITI™ consolidated PICOs from EUnetHTA 21									
PICO 1 (subpopulation)	PICO 2 (subpopulation)	PICO 3 (subpopulation)	PICO 4 (subpopulation)	PICO 5 (full population)	PICO 6 (full population)	PICO 1 (subpopulation)	PICO 2 (subpopulation)	PICO 3 (subpopulation)	PICO 4 (subpopulation)	PICO 5 (subpopulation)	PICO 6 (full population)	PICO 7 (full population)	PICO 8 (full population)	PICO 9 (full population)	
Adult patients with late-onset Pompe disease who are ERT-experienced	Adult patients with late-onset Pompe disease who are ERT-experienced	Adult patients with late-onset Pompe disease, who are ERT-naive	Adult patients with late-onset Pompe disease, who are ERT-naive	Adult patients with late-stage Pompe disease	Adult patients with late-stage Pompe disease	Adult patients with late onset Pompe disease, who are ERT-experienced	Adult patients with late onset Pompe disease, who are ERT-experienced	Adult patients with late onset Pompe disease, who are ERT-naive	Adult patients with late onset Pompe disease, who are ERT-naive	Adult patients with late onset Pompe disease, who are ERT-naive	Adult patients with late onset Pompe disease				
Cipaglucosidase alfa in combination with miglustat					Cipaglucosidase alfa in combination with miglustat										
Avalglucosidase alfa	Alglucosidase alfa	Avalglucosidase alfa	Alglucosidase alfa	Alglucosidase alfa	Avalglucosidase alfa AND alglucosidase alfa	Avalglucosidase alfa	Alglucosidase alfa	BSC	Avalglucosidase alfa	Alglucosidase alfa	Avalglucosidase alfa	Alglucosidase alfa	BSC	Physician's choice for control arm, with at least: Alglucosidase alfa or avalglucosidase alfa	
6-Minute Walk Test (6MWT); Forced Vital Capacity as a percentage of predicted (FVC%); EQ-5D-5L/VAS; Mortality; Rasch-built Pompe-specific activity (R-PAct) scale/Patient-Reported Outcomes Measurement Information System (PROMIS); Subject Global Impression of Change (SGIC); AEs; SAEs; Discontinuation due to AEs					OS; Ventilator-free survival; Changes in mobility (including measurement by 6MWT and documented use of wheelchair); Changes in respiratory function (including measurement by FVC in sitting and upright positions); Changes in muscle strength (by validated scales); Changes in motor function (by validated scales, e.g. quick motor function test); Respiratory symptomatology associated with Pompe disease; Gastrointestinal symptomatology associated with Pompe disease; QoL (as assessed using disease-specific (preferably) and/or generic questionnaires); Health status (measured preferably by the EQ-5D); Patient-reported outcomes to include R-PAct scale, and any other patient-centred outcome assessed by means of a patient-reported outcome measure; AEs (including hypersensitivity, infusion reactions, immunogenicity); SAEs; Severe AEs;										

Discontinuation and interruption of treatment due to AEs; Mortality due to AEs

naïve or experienced), EUnetHTA also specified best supportive care (BSC) that was not included as a comparator in any actual HTAs and had several separate comparators for the full population.

The EUnetHTA 21 scoping exercise also prespecified a wider range of outcomes than was included in actual HTAs; however, this may be due to HTAs reacting to outcomes included in the trial and the submission

In general, PICOs identified by the EUnetHTA 21 scoping exercises covered PICOs from actual HTAs; however, several PICOs identified in the scoping exercise were not assessed by HTAs, potentially resulting in over-scoping, particularly for orphan drugs where limited clinical data are available. For example, the Phase 3 ALLELE clinical study for EBVALLO® only included 43 patients who failed standard care therapy, for which 5 different PICOs were requested by EUnetHTA. Actual HTAs appear to have taken a more pragmatic perspective.

It should be noted that fewer PICOs in actual HTAs may be due to the limited number of published HTAs and because PICOs were estimated *post-hoc* after the HTA was published rather than *a priori*.

CONCLUSIONS

PICOs included in actual HTAs were predicted by the EUnetHTA 21 scoping exercise; however, there may be over-scoping of PICOs due to a comprehensive scoping process and the requirement to meet all member states' needs. This may place an unnecessary burden on manufacturers preparing to respond to irrelevant PICOs or an inability to respond to specific PICOs due to limitations in the clinical trial data. Manufacturer input into the scoping could be beneficial to ensure alignment on PICOs prior to EU JCA.

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