

The new Joint Clinical Assessment (JCA): What to do in the long-term and in the short-term?

ISPOR Issue Panel

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Main HTA Evidence Needs: Overview



Source: GIPAM

How can Comparative Clinical Evidence be generated?



Source: GIPAM

Abbreviations: JCA – Joint Clinical Assessment, NMA – Network Meta Analysis, PICO – Population, Intervention, Comparator, Outcome, RCT – Randomized Clinical Trial, RWE – Real-World Evidence, SLR – Systematic Literature Review

With the new JCA approaching: what are the main strategic, tactical and operational tasks?

<u>Strategy</u> (3-4 years ahead of approval, at least 6-12 months before finalization of pivotal trial design)	<u>Tactics</u> (up to 6 months before JCA approval)	<u>Operations</u> (6 months before JCA approval until last national HTA submission/price negotiation)			
Identify the (probably) relevant PICOs	Implement the Evidence Generation Plan	Develop and write your JCA dossier modules, initiate JCA process			
Plan how to address each PICO, consider early scientific consultations	Keep your PICO portfolio (definition & addressing of each PICO) up to date	After JCA submission: keep relevant parts of			
Develop an Evidence Generation Plan	Build your – regularly updated – evidence library	last national dossier has been submitted			



Abbreviations: HTA – Health Technology Assessment, JCA – Joint Clinical Assessment, PICO – Population, Intervention, Comparator, Outcome



Strategic Evidence Generation Planning: When to start?



Source: GIPAM

Abbreviations: CHMP - Committee for Medicinal Products for Human Use, EGP - Evidence Generation Plan, EMA – European Medicines Agency – European Union, HTA – Health Technology Assessment, JCA – Joint Clinical Assessment, PICO – Population, Intervention, Comparator, Outcome

How to do an early PICO Scoping?

Multiple sources of information should be considered to gain in-depth knowledge on PICOs:



Source: GIPAM

Example of an early PICO Scoping in ES-SCLC

according to clinical guidelines for treatment in Germany

	1	2	3	4	5	6	7	8		40	41
Population	 Histologicall SCLC Adults (18 ye No prior systemediate ECOG perfor No active cent metastases 	y or cytologically o ears and older) emic treatment fo mance status (PS ntral nervous syste	confirmed ES- r ES-SCLC) 0-1 em (CNS)	 Histologically cytologically SCLC Adults (18 yes No prior syst for ES-SCLC ECOG perfor 0-1 With active of system (CNS) 	 ally or ly confirmed ES- Histologically or cytologically confirmed ES- SCLC Adults (18 years and older) No prior systemic treatment for ES-SCLC No prior systemic treatment for ES-SCLC ECOG performance status 2 			 Histologicall SCLC Adults (18 yes) No prior syst ECOG performance 	 Confirmed ES-SCLC Adults Platinum refractory disease ECOG perfor- mance status 0-2 		
<u>I</u> ntervention	Novel Therapy 'XYZ' for 1L in ES-SCLC										
<u>C</u> omparator	Atezolizumab Durvalumab + Durvalumab + Carboplatin Carboplatin + Etoposide Etoposide Etoposide		Durvalumab + Cisplatin + Etoposide	Cisplatin + Etoposide + Whole-brain irradiation	Carboplatin + Etoposide + Whole-brain irradiation	Carboplatin + Etoposide Paclitaxel		Paclitaxel	Carboplatin Etoposide		Tarlatamab (future therapy option!)
<u>O</u> utcomes	1. Overall survival4. Duration of response7. Adverse events (AE) rates2. Progression-free survival5. Symptom control8. Hospitalization rate3. Objective response rate6. Health-related Quality of Life9. Discontinuation rate due to AEs								o AEs		

Source: GIPAM

Abbreviation: AE – Adverse Events, ECOG – Eatern Cooperative Oncology Group, ES-SCLC – Extensive-Stage Small Cell Lung Cancer, PICO – Population, Intervention, Comparator, Outcome

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Strategy: PICO Simulation and PICO-specific Evidence Planning in an integrated process

	Which PICOs can be expected?					How to address these PICOs?							
Overview Overview Generate new EGP	EVIO	GATOR -	- Module 2: Comparative effecti	veness database			 Overview Image: Generate new EGP C Manage EGPs 	EVIGATOR - Module 2 GET HELP IN DEVELOPING THIS ECO Monitoring quality of available.com For each PICO the qualitation for available.	P parative evidence:	ve effectiveness data	abase	Laccentance of a study by the	
Manage EGPs	The tabl analyse	e below cont /PICOs are c	ned analyses and respective study types: tains a list of all evidence needs and the underlying of high priority in order to plan the highest possible	data in the form of studies. It must be determined a quality for the generation of the required evidence:	which	Chosen types of	Monitoring	HTA bodies in the Member States is a	not part of this assess	sment and cannot simply be deriv	ved from the study type, as other factors in t	the study design must also b	PICO-specific Evidence Overview (study types) for each country including
	Priority	PICO	Endpoint * Effect measure * Time of Assessment	Population + Comparator	Study type (Name)	comparative evidence will be assigned to each		A: Moderate-to-severe CD; biologic-naïve versus Adalimumab	Endpoint 1 Endpoint 2	RCT	RCT RCT	RCT	quality assessment of that evidence
	#1	A1	Hazard ratio for % in clinical remission after 12 months	Moderate-to-severe CD; biologic-naive versus Adalimumab	RCT (301)	PICO, including GAPS		B: Moderate-to-severe CD, exp versus Vedolizumab	Endpoint 1 Endpoint 2	NMA NMA	NMA		
	# 2	81	Hazard ratio for % in clinical remission after 12 months	Moderate-to-severe CD; exp versus Vedolizumab	NMA (META-VDZ)			C: Moderate-to-severe CD; biologic-naïve versus Azathioprine	Endpoint 1 Endpoint 2	· .	No evidence	· ·	
	# 3	A2	Mean difference from baseline for IBDQ after 24 weeks	Moderate-to-severe CD; biologic-naïve versus Adalimumab	RCT (301)			D: <unknown></unknown>	Endpoint 1		-	MAIC/STC	
	#4	C1	Hazard ratio for % in clinical remission after 12 months	Moderate-to-severe CD; biologic-naive versus Azathioprine	No comparative evidence (GAP)				Endpoint 2			Unadjusted/nai	ve comparison
	# 5	82	Mean difference from baseline for IBDQ after 24 weeks	Moderate-to-severe CD; exp versus Vedolizumab	NMA (META-VDZ)								
	-						2 TECHNICAL SUPPORT						
TECHNICAL SUPPORT													

With at least 27 member states, each with different perspectives on standard of care, target populations (subgroups), and relevant outcomes, a high number of PICOs is likely.

Options for comparative study designs – per PICO: <u>*RCT, SCA,*</u> <u>*ITCs*</u> (*MAIC, STC, or NMA*), <u>or Evidence Gap</u>

In addition, supportive evidence might be needed (e.g., endpoint validation)

Source: GIPAM

Abbreviations: ITC - Indirect Treatment Comparison, JCA – Joint Clinical Assessment, MAIC - Matching-Adjusted Indirect Comparison, NMA – Network Meta Analysis, PICO – Population, Intervention, Comparator, Outcome, RCT – Randomized Clinical Trial, RWE – Real-World Evidence, SCA - Synthetic Control Arm, SLR – Systematic Literature Review, STC - Simulated Treatment Comparison

Decision making around methods for comparative analysis in addition to RCTs



Abbreviations: IPD - Individual Patient Level Data, IPW - Inverse Probability Weighting, ITC - Indirect Treatment Comparison, MAIC - Matching-Adjusted Indirect Comparison, ML-NMR -Multi-Level Network Meta-Regression, NMA - Network Meta-Analysis, PSM - Propensity Score Matching, RCT - Randomized Controlled Trial, RWD - Real-World Data, STC - Simulated Treatment Comparison

Strategic Evidence Generation Plan: More than ever, due to PICO changes, a Living Document!

Medical background around TPP



SLR - Systematic Literature Review

Trial, TPP - Target Product Profile, SCA - Synthetic Control Arm,

Tactics: Implement your EGP and build an Evidence Library



Source: GIPMA

Abbreviations: CD – Crohn's Disease, EGP - Evidence, HR – Hazard Ratio, JCA – Joint Clinical Assesment, NMA – Network Meta Analysis, RCT – Randomized Controlled Trial, RR – Response Rate, SMD – Standardized Mean Difference

Tactics: Test your Evidence Library...

An <u>Evidence Library</u> should	Test Questions
structure the evidence according to study types AND PICOs	Do I always see at any time point (1) which PICOs are expected, (2) which evidence (type) is planned per PICO, (3) what the interim results are (ORs, RRs, HRs)?
be kept updated (own trial, published evidence, RWE studies, etc.)	Is the evidence updated at least quarterly, including important NMAs / MAICs / STCs which might change due to new results of our trial, new (sub)populations, new published evidence?
allow subgroup analyses and quick PICO changes	Can I run scenario analyses, based on my Evidence Library?
be available to all relevant stakeholders	Do all relevant internal stakeholders have access to above information and data?

Source: GIPAM

Abbreviations: HR – Hazard Ratio, MAIC – Matching-Adjusted Indirect Comparison, NMA – Network Meta Analysis, OR – Odds Ratio, PICO – Population, Intervention, Comparator, Outcome, RR – Response Rate, STC - Simulated Treatment Comparison

Operations: Develop your JCA Dossier (I)



Source: GIPAM

Abbreviations: ITC – Indirect Treatment Comparison, MCID – Minimal Clinically Important Difference, RCT – Randomized Controlled Trial, RWE – Real-World Evidence, SoC – Standard of Care

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Operations: Develop your JCA Dossier (II)

Comprehensive description of all projects that generated the comparative evidence body:

- Description of information retrieval, including syntax for search strategies of literature review
- Full texts of references for all included studies
- Study Reports for original clinical trials and evidence synthesis studies
- Efficacy & Safety sections from EMA dossier
- Other HTA and JSC Reports, if available
- Study protocols/Statistical Analysis Plans
- Programming code for programs used for data analyses
- Listing of all ongoing related studies (incl. registries)

Part I: Overview

- Administrative information
- Executive summary

Part II: Background

- Health problem and current clinical practice: medical condition to be treated or diagnosed
- Description and technical characteristics of the technology: medicinal product/medical device under assessment
- Information from joint scientific consultation

Part III: Research question(s) and scope

Part IV: Methods

Part V: Results

- Of information retrieval
- On relative effectiveness and relative safety

Part VI: List of References + Appendices

High-level dossier structure

Evidence body is likely to be re-utilized in subsequent national HTA appraisal

> Your evidence library should support that!

JCA Evidence Generation: Main Recommendations

Strategy	Tactics				
 Develop initial draft PICOs 3-5 years before submission through an internal simulation 	 Update your PICOs regularly 				
 Based on the above scoping, plan your Evidence Generation Plan at least 3-4 years prior to submission and/or pivotal trial decision Plan how to address each PICO with the relevant evidence 	 Build an Evidence Library and keep it updated until the latest national HTA submission and/or price negotiation 				
 Implement studies, keeping in mind that some may require 2-3 years to complete. 	 Develop the draft JCA dossier with optional elements, allowing for selection of the relevant PICOs after the official scoping process 				

Abbreviations: HTA – Health Technology Assessment, JCA – Joint Clinical Assessment, PICO – Population, Intervention, Comparator, Outcome



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