HOW TO INTERPRET ICERS IN ORPHAN DISEASES? A FRENCH EXAMPLE.

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BACKGROUND & OBJECTIVES

- In France, pharmacoeconomic evaluations are submitted by manufacturers to the Economic and Public Health Committee (CEESP).
- The CEESP assesses the **methodology** of these evaluations, in order to determine if the efficiency of the drugs can be established.
- Even though there is **no ICER threshold** in France, the CEESP can characterize the level of ICER obtained in the evaluation in order to enlighten public decision making, and to contribute to price negotiations.

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- The pharmacoeconomic evaluations of orphan drugs often present high ICERs and important uncertainties, driven by the high prices requested by manufacturers, and the frequent lack of data used in the evaluation.
- The aim of this analysis was to discuss ICERs of orphan drugs and their characterizations issued by the CEESP.

METHODS

- To conduct this analysis we used an IQVIA database that contains all the pharmacoeconomic evaluations issued by the CEESP.
- This database allowed us to analyze the trends of the evaluations made by the CEESP based on structural parameters, cost-effectiveness results, sensitivity analysis, and methodological objections.
- We selected all the opinions published between January 2014 and June 2018 involving orphan drugs according to the Transparency Committee opinions and designations. These drugs are typically indicated in conditions that have a prevalence of below 5 in 10,000.
- For all the eligible drugs, we analyzed several outcomes, including ICERs and their characterization issued by the CEESP.

RESULTS¹

- Between January 2014 and June 2018, the CEESP issued 61 "efficiency" opinions on 49 drugs and 3 medical devices. Among the drugs, 11 qualified as
 orphans and their 13 evaluations are summarized in the table below.
- The 13 orphan drug evaluations pertained to the following therapeutic areas: hematology or oncology (7), cardiology (2), pulmonology (2), endocrinology (1) and the musculoskeletal therapeutic area (1).
- All the orphan drugs targeted restricted populations, from 50 to 5,000 patients. Furthermore, they were indicated in both adults or pediatric populations.
 Their ICERs ranged very widely, from €33,127/QALY (Imbruvica[®]) to €2,661,514/QALY (Spinraza[®]). In the case of Venclyxto[®]'s evaluation, the ICER could not be established, due to the absence of comparative data.

Drug	Opinion date	Therapeutic area	Target population	Population of indication	Comparator	ICER (€ / QALY)	ICER characterization by the CEESP	Methodological validity	Objections		
									Major	Important	Minor
DEFITELIO®	18/02/2014	Hematology	155 - 283	Adult & pediatric	No treatment	33,273	NA	No	4	13	2
OPSUMIT®	24/06/2014	Cardiology	3,000	Adult	Active treatment	85,359	NA	No	3	3	4
ADEMPAS®	14/10/2014	Cardiology	1,133	Adult	No treatment	239,145	Excessively high	No	4	4	6
ESBRIET [®]	03/02/2015	Pulmonology	4,960	Adult	No treatment	70,651	NA	No	0	8	2
NPLATE®	03/02/2015	Hematology	1,887	Adult	Active treatment	Dominant	NA	Yes	0	5	1
IMBRUVICA®	07/04/2015	Oncology	500	Adult	Active treatment	33,127	NA	No	1	1	8
IMBRUVICA®	07/04/2015	Oncology	1,500 - 1,700	Adult	Active treatment	102,483	NA	No	2	3	7
KYPROLIS®	10/05/2016	Hematology	2,350 - 2,500	Adult	Active treatment	287,000 - 293,000	Extremely high	Yes	0	2	9
ORKAMBI®	10/05/2016	Pulmonology	1,700	Adult & pediatric	No treatment	574,390	Extremely high	Yes	0	4	9
STRENSIQ®	10/05/2016	Endocrinology	50 - 80	Pediatric	No treatment	2,300,000	Exceptionally high	No	1	4	2
IMBRUVICA®	14/06/2016	Oncology	1,500 - 1,700	Adult	Active treatment	95,556	NA	No	0	5	3
VENCLYXTO®	13/06/2017	Hematology	1,000	Adult	Active treatment	NA	NA	No	1	0	0
SPINRAZA®	12/12/2017	Musculoskeletal	300	Pediatric	No treatment	2,661,514	Extremely high	Yes	0	5	2

- Interestingly, the CEESP has issued a characterization for all the ICERs above €200,000/QALY, regardless of the therapeutic area, population of indication, size of the target population, or existence of active comparator.
- Indeed, Adempas[®], Kyprolis[®], Orkambi[®], Strensiq[®] and Spinraza[®] presented ICERs that were deemed « excessively », « extremely », or « exceptionally » high by the CEESP. The committee did not comment on the ICER values of the other orphans, but they were almost all below €100,000/QALY.
- The use of the IQVIA database to analyze the characterization of ICERs for non-orphan drugs by the CEESP shows that 5 ICERs between €100,000 and €200,000/QALY have been deemed « very high ». But since no orphan has presented an ICER in this range, we have no information on the CEESP requirements for orphan drugs.
- Also, for 9 of the 13 evaluations presented in the table, the CEESP determined that the methodology used in the evaluation was not valid, mainly due to
 lack of clinical data, comparative data, or because of too much uncertainty.

Conclusion

- Today there is no official threshold for ICERs in France, but according to the CEESP evaluations, it seems that orphans ICERs above €200,000/QALY are considered « excessively high ».
- However, these ICER characterizations have little impact on a drug's market access and reimbursement, as only major objections to the methodology of the evaluation can complicate price negotiations, and prevent the achievement of European pricing.
- As pharmacoeconomic evaluation is quite a recent addition to the French HTA pathway, the implementation of an
 official ICER threshold by political decision could heighten its importance, as well as the role of the CEESP.