

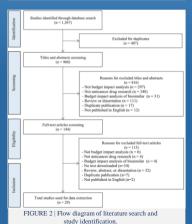
Is the Scope of Costs Considered in Budget Impact Analyses for Anticancer Drugs Rational? A Systematic Review and Comparative Study



Yue Ma 1,2, Yuxin Li 1,2, Aixia Ma 1,2 and Hongchao Li 1,2* 2 Center for Pharmacoeconomics and Outcomes Research, China Pharmaceutical University, Naniing, China

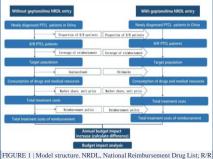
Objectives

We systematically reviewed whether BIAs for anticancer drugs consider the scope of costs rationally and compared the results of different cost scopes to provide suggestions for future analyses and decision-making.



Methods

- · Eligible BIAs published in PubMed, Embase, Web of Science, and the Cochrane Library from 2016 to 2021 were identified based on PRISMA guidelines.
- •15 terms were extracted from the included studies and analyzed how they considered the scope of costs.
- · A budget impact model was developed for the introduction of geptanolimab to China's National Reimb ursement Drug List to enable a comparison of two cost-scope scenarios (with/without considering subseque nt treatment costs).



PTCL, relapsed or refractory peripheral T cell lymphoma.

Results

- 29 studies were included in the systematic review. All considered the costs of anticancer drugs, and 25 (86%) also considered condition-related costs, but only 11 (38%) considered subsequent treatment costs.
- In the comparative study, the predicted budget impacts from 2022 to 2024 were significantly impacted by subsequent treatment costs, with annual differences between the two cost-scope scenarios of \$39,546,664. \$65,866,161, and \$86,577,386 respectively.
- The existing recommendations regarding the scope of costs are summarized in Table 2.

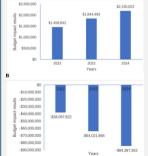


FIGURE 3 | Budge impact results of two cost-scope scenarios. (A) is the budget impact results without considering subsequent treatment costs (B) is the budget impact results with considering Subsequent treatment costs.

TABLE 2 | Summary of key recommendations of cost scopes in existing BIA guidelines.

BIA guidelines				Canada (2020)	France (2018)	Ireland (2018)		The Netherlands (2016)	Belgium (2014)		Poland (2004)
mmended Direct e of costs costs	Intervention costs	√	√	/	V	V	V	√	√	√	√
	Administration costs	√	√		√	√		√	√	√	√
	Monitoring costs	√	1		√	√		√	√	√	V
	AE costs	√	√	√	√	√	√	√	√	√	V
	Subsequent treatment costs	√	√	√	√	√	√	√	√	√ (Depending on the payer requirement and perspectives)	√
		_v / (When needed)			√ (Depending on perspectives)				√ (When needed)		√ (if possible to predict)

Advance exerts: RIS. Ruckest impact analysis: ISPOR, international Society for Pharmaconaconomics and Outcomer Research ISCS, National Institute for Health and Clinical cellance of United Kinadom: J. Recommended to consider

Conclusions

- The scope of costs considered in some existing BIAs for anticancer drugs are not rational. The variations between different cost scopes in terms of budget impact were significant.
- · BIAs for anticancer drugs should consider a rational scope of costs that adheres to BIA guidelines.
- · Researchers and decision-makers should pay more attention to the scope of costs to achieve better-quality BIAs for anticancer drugs and enhance reimbursement decision-making.