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Aim

This research provides an overview of the role of real-world evidence (RWE) in cost-effectiveness analyses (CEAs) in Asia.

"What impact does RWE have on CEAs submitted to Asian HTA bodies?"

Background

RWE can play an important role in reimbursement decisions by providing data on the effectiveness and safety of therapies in real-world populations.¹⁻³

Use of RWE in submissions to HTA bodies in emerging markets can be particularly beneficial, given that local patient populations are often underrepresented in pivotal clinical trials.⁴⁻⁶

Although 60% of the global population lives in Asia, only 17% of global clinical trials are conducted in the region.

In countries where reimbursement decisions are not made at the time of market entry (e.g., India, Indonesia, Malaysia, China, Philippines, Singapore, and Thailand), there is an opportunity to collect RWE prior to preparing HTA submissions.³

In countries where reimbursement decisions are made after market entry (e.g., South Korea, Japan, and Taiwan), RWE can be considered when reassessing initial funding decisions.³

Methods

A targeted literature review was conducted to identify data on RWE in CEAs in Asian countries. Searches were executed on PubMed and the ISPOR Presentations Database in January 2024; supplemental searches were conducted in April 2025.

Records were screened by experienced researchers and results were categorized by country and source of RWE used. Reference lists of review articles were screened for relevant studies.

Records were included if they used RWE collected in Asia to inform the cost-effectiveness model.



References

- . Zisis et al. J Pharm Pharm Sci. 2024;27:12302 2. Akhras et al. Expert Rev Pharmacoecon Outcomes Res.
- 2019;19(3):245-250
- Shau et al. *Perspect Clin Res*. 2023;14(3):108-113
- Mason et al. *BMJ*. 2003;326(7401):1244-1245 5. Fashoyin-Aje et al. *J Clin Oncol*. 2017;35(15_suppl):6564-

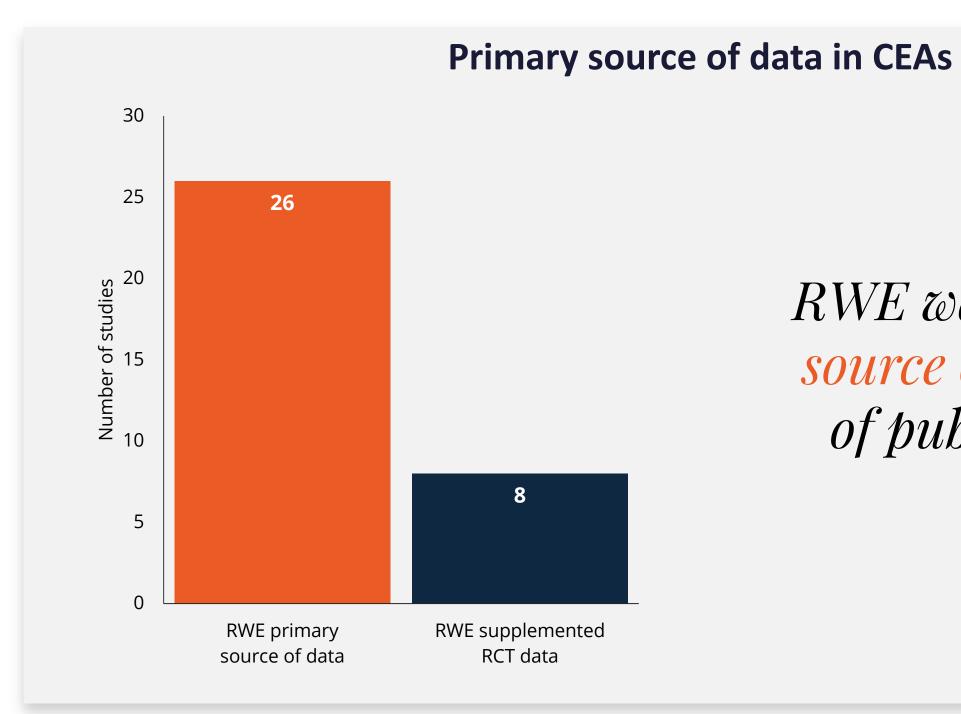
Use of Real-World Evidence in Cost-Effectiveness

Findings

RWE was used to inform CEAs in 34 publications.

Number of published CEAs identified in the search, by country





Sources of RWE used to inform CEAs



6. Kc et al. Int J Health Policy Manag. 2023;12:6858

- 7. Wang et al. Int J Technol Assess Health Care. 2023;39(1):e4
- 8. Rahadi et al. Int J Technol Assess Health Care.
- 2025;41(1):e18 9. Hsieh et al. Eur Rev Med Pharmacol Sci. 2021;25(21):6548-
- 6556. 10. Trerayapiwat, et al. *Lancet Reg Health West Pac.*
- 2022;26:100503.

Findings

Taiwan, Japan, and Thailand had the most CEAs.

Country	No. studies
Taiwan	8
Japan	7
Thailand	6
Singapore	5
Indonesia	3
South Korea	2
China	2
Malaysia	1

RWE was the primary source of data in 81% of published CEAs.

National and local registers were the main RWE sources.

Number of studie

Costs (direct or indirect)

- Clinical effectiveness
- Utilities/disutilities
- Survival/mortality
- **Baseline characteristics**
- Disease progression

Examples of use of RWE in HTA submissions

- Early HTA:

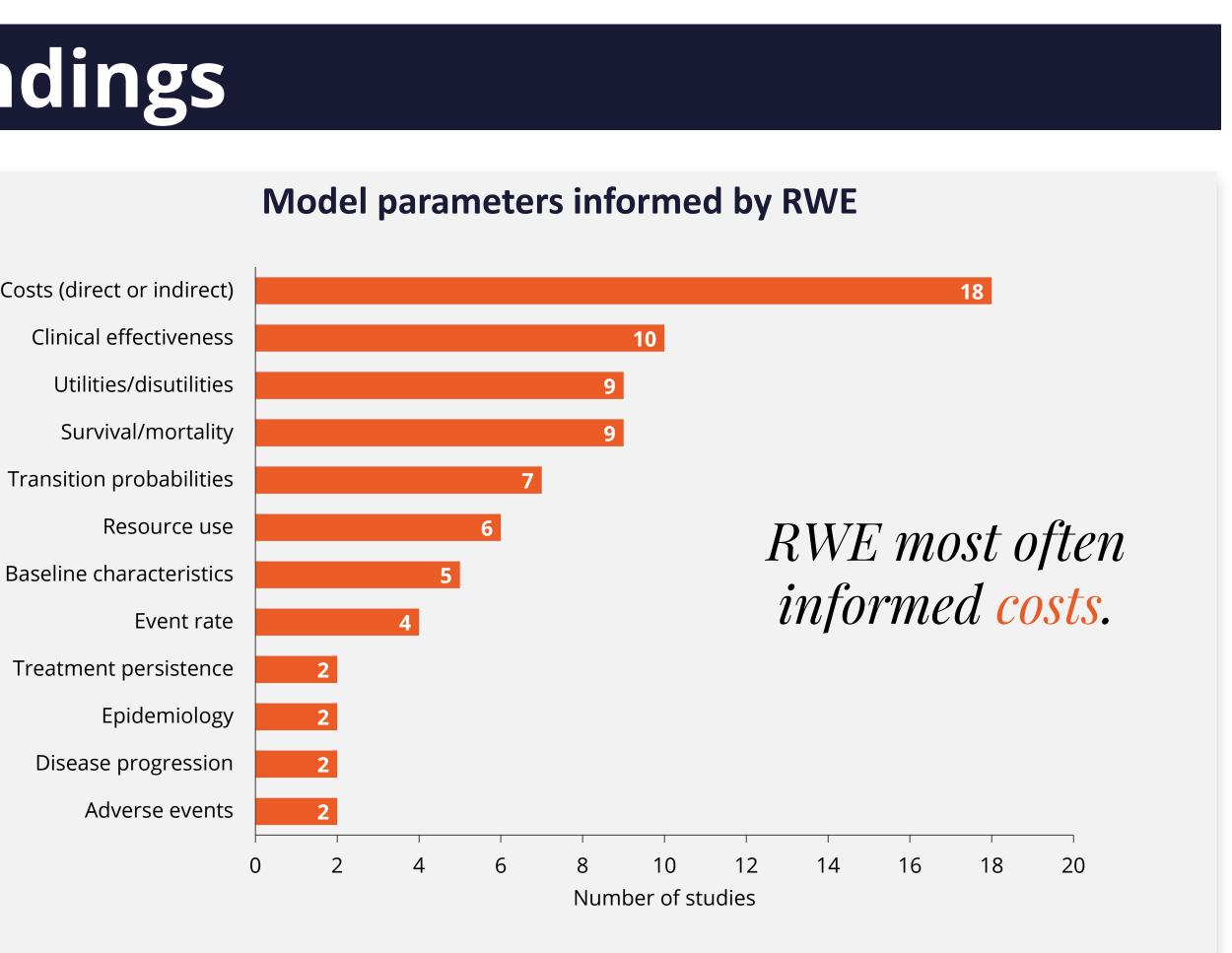
- inhibitors.⁹
- infarction.¹⁰

Discussion

process.

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RWE was used in an early HTA in Singapore ahead of the clinical trial to understand the potential value of a novel technology in poststroke recovery.⁷

Reevaluation of initial HTA decisions:

• In Indonesia, RWE was used to recalibrate transition probabilities and survival estimates from the initial CEA to better reflect realworld practice and inform decision-making.⁸

• In Taiwan, RWE was used to adjust National Health Insurance Administration benefit packages for immune checkpoint

• In Thailand, RWE was used to reevaluate streptokinase and tenecteplase as treatments for ST-segment elevation myocardial

RWE plays a crucial role in HTA in Asia, with 81% of identified CEAs using it as a primary source of data.

Underrepresentation of Asian populations in RCTs is a critical gap that needs to be addressed for adequate decision-making.

Collection of RWE ahead of HTA submissions can address data gaps on local populations and potentially reduce delays in the reimbursement

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