

# Half of economic evaluations on new vaccine introduction underestimated vaccine delivery costs – i.e. they only estimated health worker time or had no delivery costs.

## Systematic Review of New Vaccine Introduction Cost Projections

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### Intro

- No systematic reviews were conducted on cost projections for new vaccine introduction
- Not enough information on methods used to project vaccine delivery costs
- The World Health Organization requested a systematic review to inform the update of guidance document on cost projections for new vaccine.

### Methods

The review assessed the following of new vaccine cost projection studies:

- Objectives
- Data collection and sampling methods
- Data sources
- Methods of analyses
- Characterization of data uncertainty
- Application of cost estimates

Searched four engines: PubMed, Cochrane Open Access, Mendeley, and Google Scholar

Studies were included if:

- Had cost analyses of new vaccines
- Published in or after 1990 until 15 June 2022
- Projected costs of new vaccine introduction
- Specific to one or a few countries

Studies excluded if:

- Had retrospective costing
- Published before 1990
- Were regional or global studies

**Using these criteria, 1,108 studies were identified, and 171 studies met our criteria.**

### Results

Table 1 shows that half of the studies were from high-income countries, 39% from middle-income countries, and 11% from low-income countries.

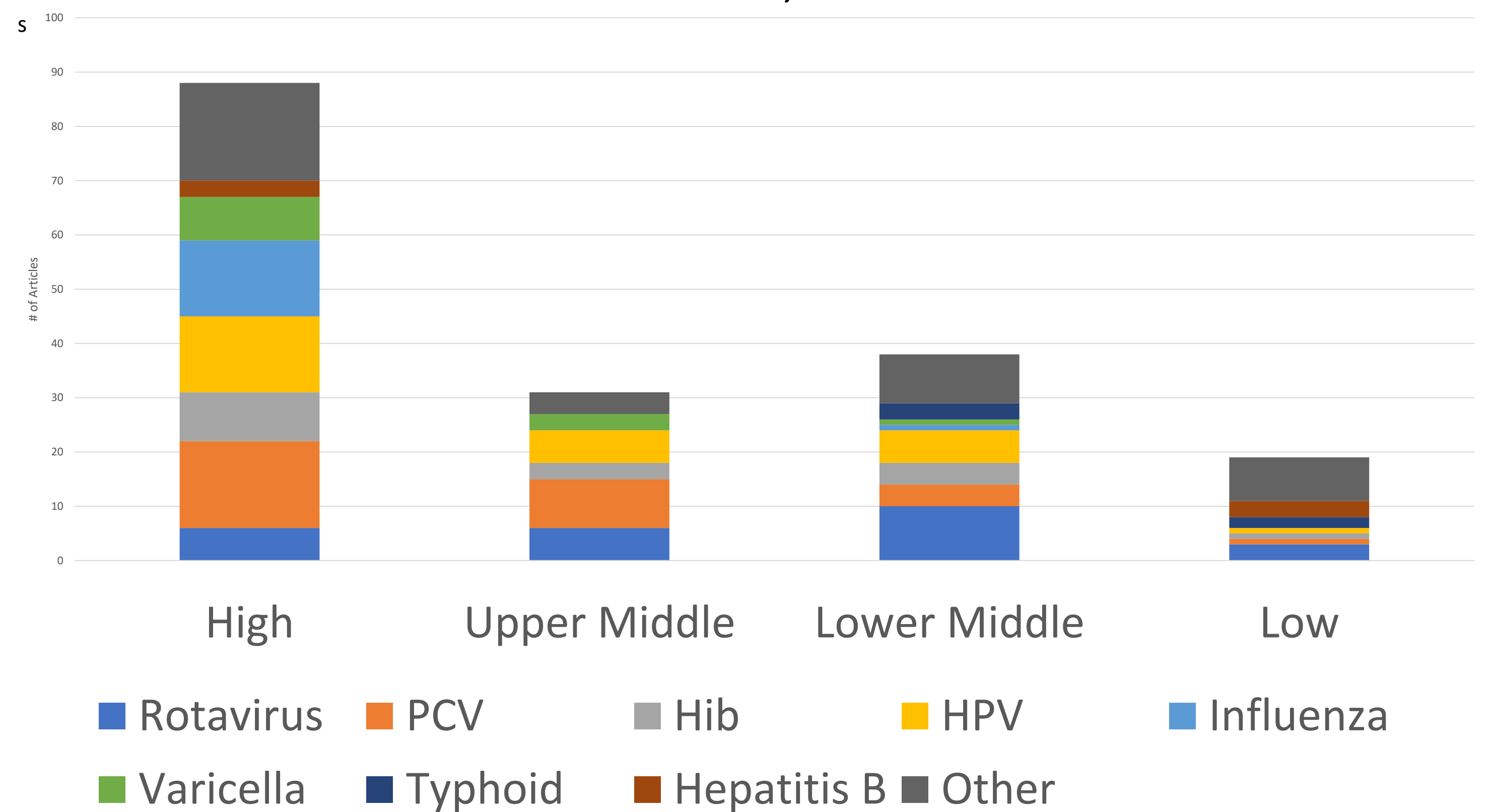


Figure 1. New Vaccine Cost Studies by Income Group and Vaccine

Figure 2 shows the number of studies by type of economic evaluation and vaccine.

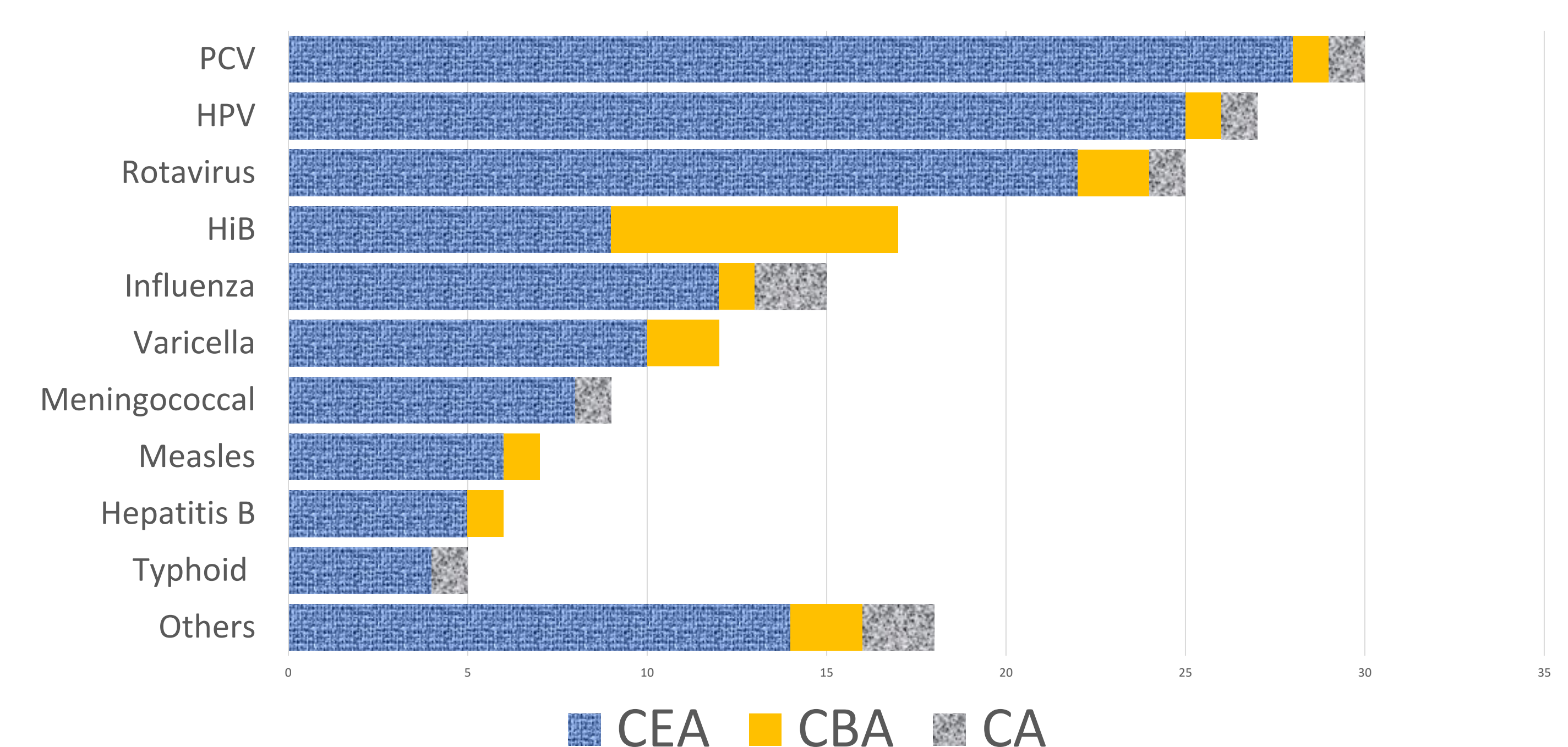


Figure 2. New Vaccine Cost Studies by type of Economic Evaluation and Vaccine

Figure 3 shows completeness of cost data by type of economic evaluation.

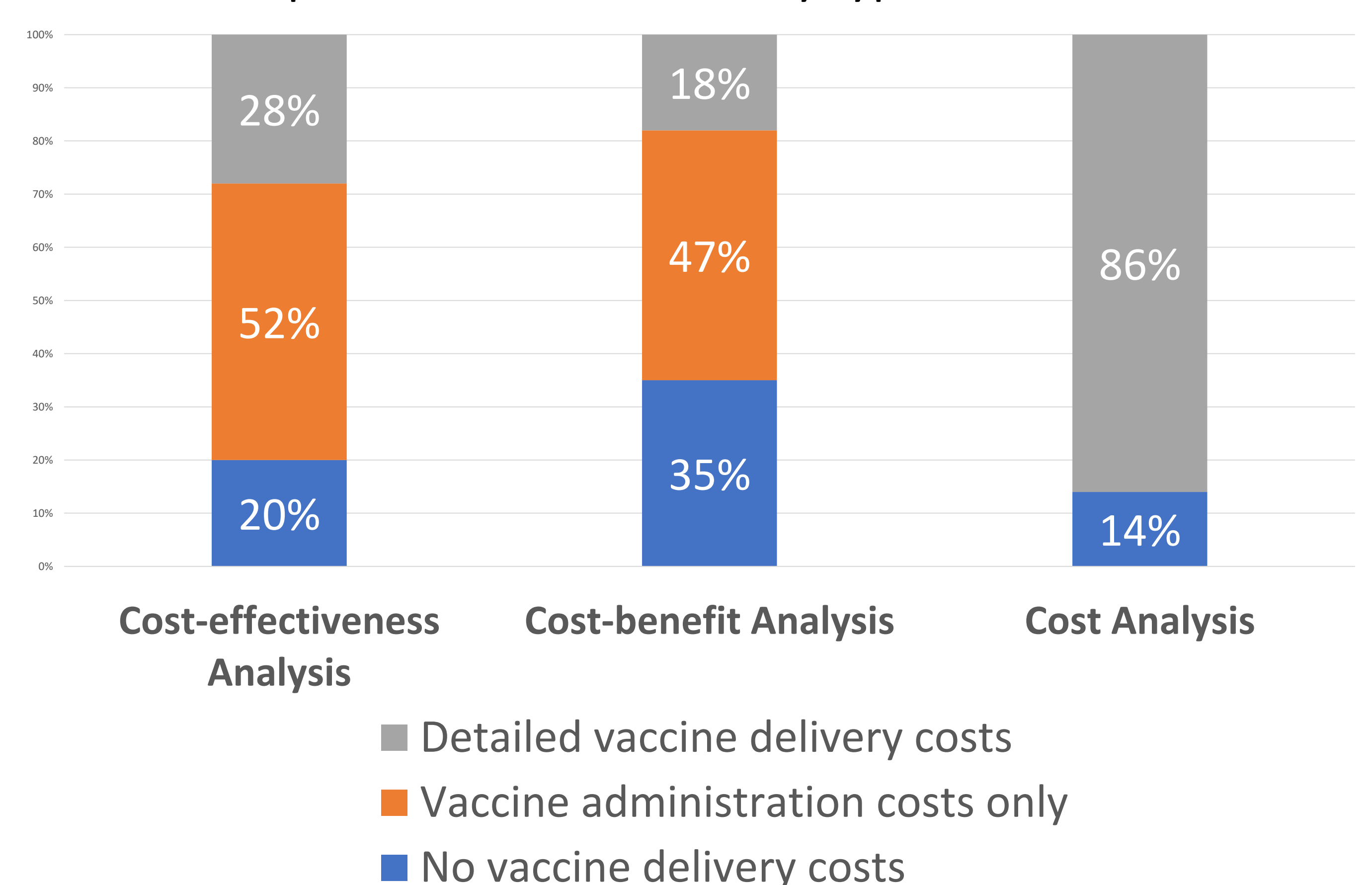


Figure 3. Completeness of cost data by type of economic evaluation



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