

Systematic Review of New Vaccine Introduction Cost Projections

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Gaps in Methods and Reviews on Cost Projections



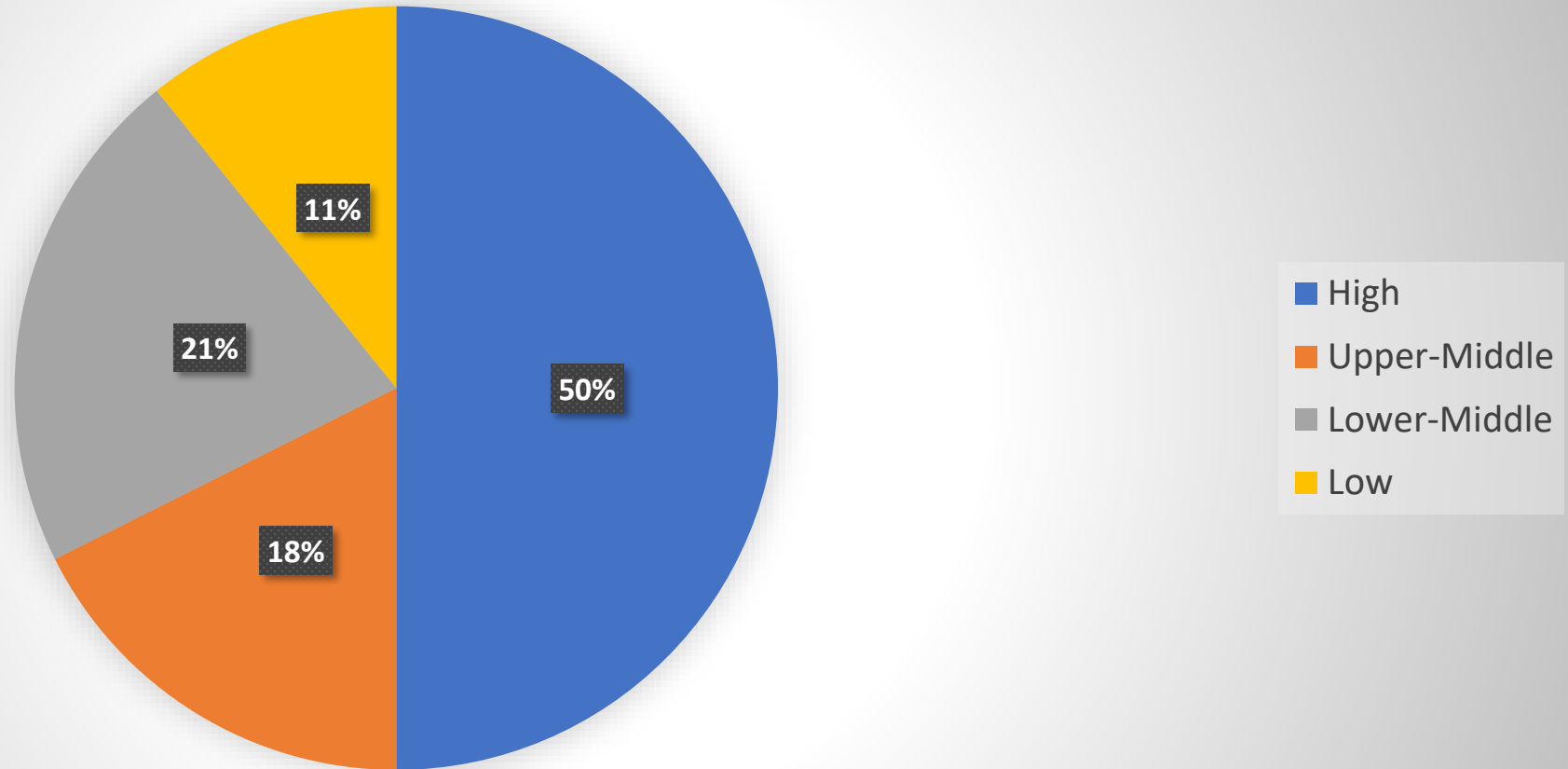
- No systematic reviews conducted on cost projections for new vaccine introduction
- Not enough information on methods used to project vaccine delivery costs
- The World Health Organization requested a systematic review to inform the update of guidance for new vaccine cost projections.

Methods used to conduct Systematic Review

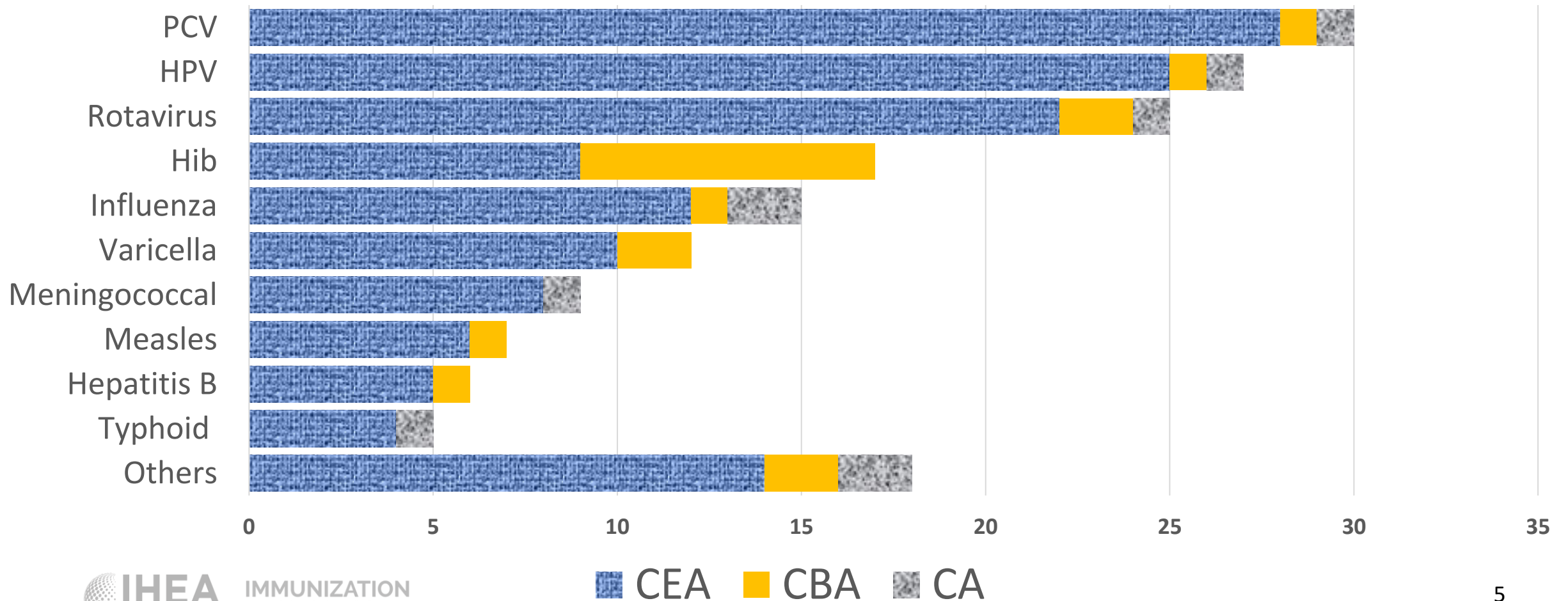


- Searched four engines: PubMed, Cochrane Open Access, Mendeley, and Google Scholar
- Inclusion criteria
 - Projected costs of introducing new vaccines, published 1990-2022, specific to one or a few countries
- Exclusion criteria
 - Retrospective costing, published before 1990, were global or regional studies
- ***Identified 1,108 studies, and 171 met the criteria***

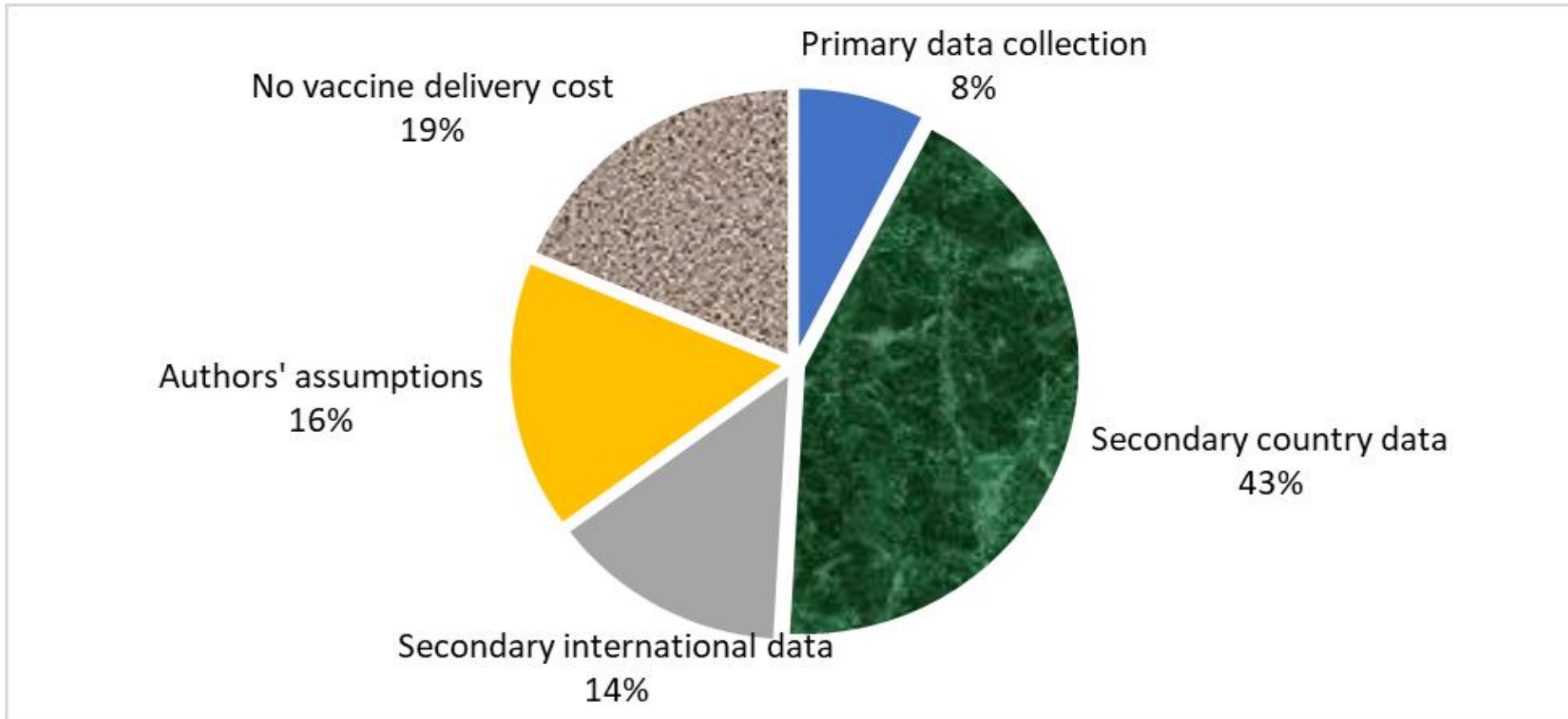
Results: Studies by Income Level (n= 171)



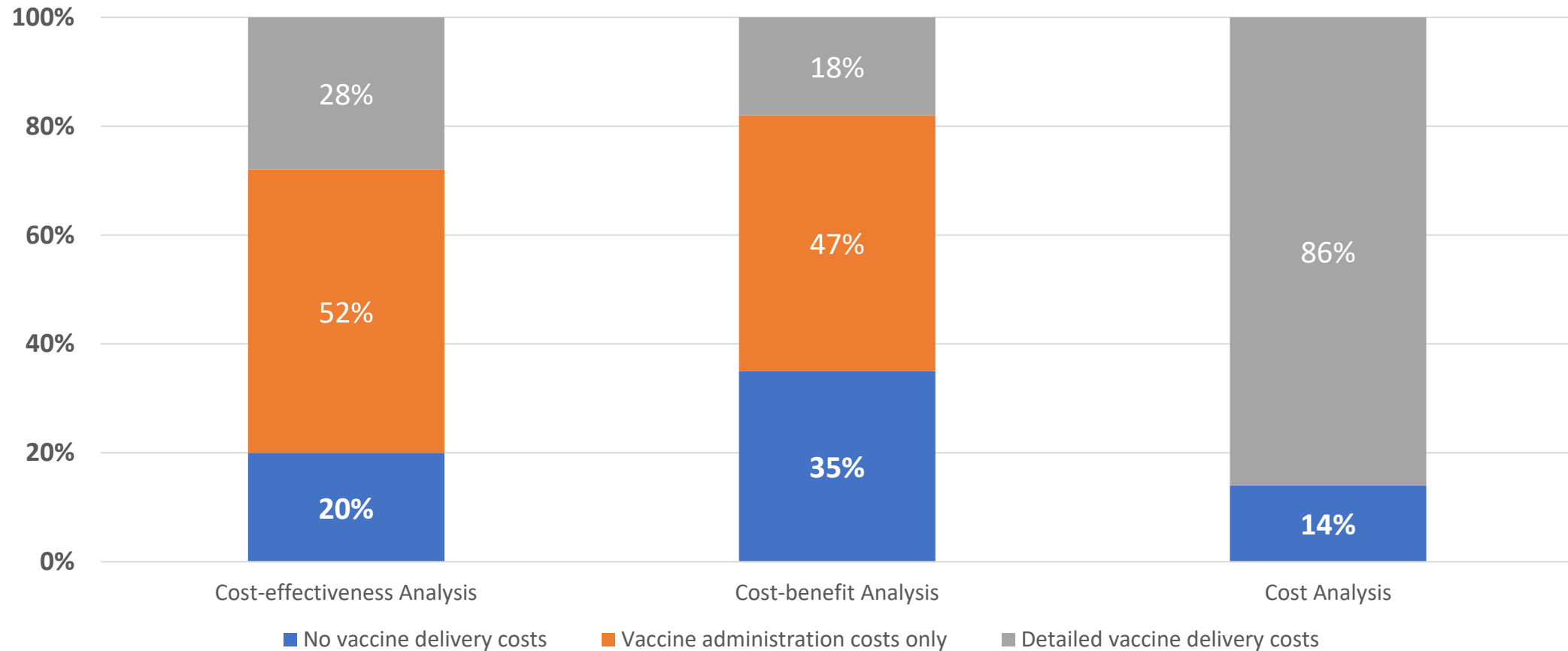
Studies by type of economic evaluation and vaccine (n=171)



Source of Vaccine Delivery Costs (n=171)



Studies by Type of Economic Evaluation and Completeness of Cost Data (n=171)



Conclusion

- The majority of cost projections were conducted in high and middle income countries
- Over half of studies utilized secondary sources of cost data, indicating the importance of improving accuracy of existing cost studies
- Half of studies on new vaccine cost projections underestimated delivery costs
 - Only included administration or no delivery costs

Recommendations for Community of Practice

- When conducting economic evaluations of new vaccine estimates, important to estimate full costs of introduction
- Further develop guidance documents on economic evaluation to emphasize estimation of full vaccine delivery costs
- When conducting journal reviews of economic evaluations of new vaccines, encourage authors to include full delivery costs

Thank you



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