

## Stochastic league tables: communicating cost-effectiveness results to decision-makers

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### Abstract

The presentation of the results of uncertainty analysis in cost-effectiveness analysis (CEA) in the literature has been relatively academic with little attention paid to the question of how decision-makers should interpret the information particularly when confidence intervals overlap. This question is especially relevant to sectoral CEA providing information on the costs and effects of a wide range of interventions.

This paper introduces stochastic league tables to inform decision-makers about the probability that a specific intervention would be included in the optimal mix of interventions for various levels of resource availability, taking into account the uncertainty surrounding costs and effectiveness. This information helps decision-makers decide on the relative attractiveness of different intervention mixes, and also on the implications for trading gains in efficiency for gains in other goals such as reducing health inequalities and increasing health system responsiveness. Copyright © 2001 John Wiley & Sons, Ltd.

### References


- 1 Briggs AH, Wonderling DE, Mooney CZ. Pulling cost-effectiveness analysis up by its bootstraps: a non-parametric approach to confidence interval estimation. *Health Econ* 1997; 6: 327-340.

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4 Lord J, Asante MA. Estimating uncertainty ranges for costs by the bootstrap procedure combined with probabilistic sensitivity analysis. *Health Econ* 1999; 8: 323-333.

5 Stinnett AA, Mullahy J. Net health benefits: a new framework for the analysis of uncertainty in cost-effectiveness analysis. *Med Decis Making* 1998; 18(Suppl): S68-S80.

6 Birch S, Gafni A. Cost-effectiveness ratios: in a league of their own. *Health Policy* 1994; 28: 133-141.

7 Drummond M, Torrance G, Mason J. Cost-effectiveness league tables: more harm than good? *Soc Sc Med* 1993; 37: 33-40.

8 Murray CJ, Evans DB, Acharya A *et al*. Development of WHO guidelines on generalized cost-effectiveness analysis. *Health Econ* 2000; 9: 235-251.

9 Murray CJ, Frenk J. A framework for assessing the performance of health systems. *Bull World Health Organ* 2000; 78: 717-731.

10 O'Brien BJ, Sculpher MJ. Building uncertainty into cost-effectiveness rankings: portfolio risk-return tradeoffs and implications for decision rules. *Med Care* 2000; 38: 460-468.

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