

A Validated Checklist

for Evaluating the Quality of Observational Cohort Studies for Decision-Making Support

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GRACE: Good ReseArch for Comparative Effectiveness

The GRACE Checklist is designed for the assessment of observational studies of comparative effectiveness in terms of their quality and usefulness for decision-making. The checklist was developed from a review of the literature with guidance from recognized experts in this field. The content includes questions about data and methods. One hundred and thirteen (113) volunteer testers have rated 280 articles. Validation activities have documented the usefulness of all 11 questions in this checklist. Approaches to scoring are under consideration.

The GRACE Initiative has been spearheaded by Quintiles Outcome in collaboration with the National Pharmaceutical Council. GRACE contributors represent perspectives from academic, government, and private sectors in the US, Europe, Asia and Africa. A listing of contributors and collaborators can be found at **www.graceprinciples.org**. More information is available in the American Journal of Managed Care 2010; 16(6): 467-471 (Dreyer NA, Schneeweiss S, McNeil B et al.) The methods and results for the validation have been submitted for publication.

To join the GRACE Initiative or for more information, please contact us at **coordinator@graceprinciples.org**. Feedback welcomed.

Nancy A. Dreyer Leader, GRACE Initiative

ALWAYS CONSIDER: Is this adequate for the study purpose?

Data





ALWAYS CONSIDER:	Is this	adequate	for the	study purpose?
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M3

Yes

ALWAYS CONSIDER: Is this adequate for the study purpose?

If one or more comparison groups were used, were they concurrent comparators? If not, did the authors justify M2 the use of historical comparisons group(s)? **Yes**—data were collected during the same time period as the Comments:

- treatment group ("concurrent") or historical comparators were used with reasonable justification, e.g., when it is impossible for researchers to identify current users of older treatments or when a concurrent comparison group is not valid—(i.e., uptake of new product is so rapid that concurrent comparators differ greatly on factors related to the outcome)
- **No**—historical comparators used without being scientifically justifiable, or not enough information in article

Were important covariates, confounding and effect modifying variables taken into account in the design and/or analysis? Appropriate methods to take these variables into account may include: restriction, stratification, interaction terms, multivariate analysis, propensity score matching, instrumental variables or other approaches.

- Yes—most if not all important covariates that would be likely to change the effect estimate substantially were accounted for, e.g., measures of medication dose and duration.
- **No**—some important covariates were available for analysis but not analyzed appropriately, or at least one important covariate was not measured, or not enough information in article

Is the classification of exposed and unexposed person-time free of "immortal time bias"? Immortal time in epidemiology refers to a period of cohort follow-up time during which death (or an outcome that determines end of follow-up) cannot occur. Comments:

No, *or* not enough information in article

Were any meaningful analyses conducted to test key assumptions on which primary results are based? E.g., were
some analyses reported to evaluate the potential for a biased assessment of exposure or outcome, such as analyses
where the impact of varying exposure and/or outcome definitions was tested to examine the impact on results.

- Yes—and primary results *did not* substantially change
- **Yes**—and primary results changed substantially
- None reported, *or* not enough information in article

Comments:

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Comments:

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