	rummond's 10-item Checklist 1 001" Used for CEA Quality Appraisal
Excel Column	Description
Q1. Was a well-	1.1. Did the study examine both costs and effects of the service(s) or programme(s)?
defined question	1.2. Did the study involve a comparison of alternatives?1.3. Was a viewpoint for the analysis stated and was the study placed in any particular
posed in answerable form?	
	decision-making context? 2.1. Were any relevant alternatives omitted?
Q2. Was a	•
comprehensive	2.2. Was (should) a do-nothing alternative (be) considered?
description of the	
competing	
alternatives given (i.e. can you tell who did	
what to whom, where,	
and how often)?	
Q3. Was the	3.1. Was this done through a randomised, controlled clinical trial? If so, did the trial
effectiveness of the	protocol reflect what would happen in regular practice?
	3.2. Were effectiveness data collected and summarized through a systematic overview
programme or services established?	of clinical studies? If so, were the search strategy and rules for inclusion or exclusion
services establisheu?	outlined?
	3.3. Were observational data or assumptions used to establish effectiveness? If so, what
	are the potential biases in results?
Q4. Were all the	4.1. Was the range wide enough for the research question at hand?
important and	4.2. Did it cover all relevant viewpoints? (Possible viewpoints include the community
relevant costs and	or social viewpoint, and those of patients and third-party payers. Other viewpoints may
consequences for each	also be relevant depending upon the particular analysis.)
alternative identified?	4.3. Were the capital costs, as well as operating costs, included?
Q5. Were costs and	5.1. Were the sources of resource utilization described and justified?
consequences	5.2. Were any of the identified items omitted from measurement? If so, does this mean
measured accurately	that they carried no weight in the subsequent analysis?
in appropriate	5.3. Were there any special circumstances (e.g., joint use of resources) that made
physical units (for	measurement difficult? Were these circumstances handled appropriately?
example, hours of	
nursing time, number	
of physician visits, lost	
work-days, gained	
life-years)?	
Q6. Were costs and	6.1. Were the sources of all values clearly identified? (Possible sources include market
consequences valued	values, patient or client preferences and views, policy-makers' views, and health
credibly?	professionals' judgements)
	6.2. Were market values employed for changes involving resources gained or depleted?
	6.3. Where market values were absent (e.g. volunteer labour), or market values did not
	reflect actual values (such as clinic space donated at a reduced rate), were adjustments
	made to approximate market values?
	6.4. Was the valuation of consequences appropriate for the question posed (i.e. has the
	appropriate type or types of analysis – cost-effectiveness, cost-benefit, cost-utility – been
	selected)?
Q7. Were costs and	7.1. Were costs and consequences that occur in the future 'discounted' to their present
consequences	values?
adjusted for	7.2. Was any justification given for the discount rate used?
differential timing?	0.1 When the still dense of the second state o
Q8. Was an	8.1. Were the additional (incremental) costs generated by one alternative over another
incremental analysis	compared to the additional effects, benefits, or utilities generated?
of costs and	
consequences of	
alternatives	

Additional file 4: Drummond's 10-item Checklist Tool^a Used for CEA Quality Appraisal

performed?	
Q9. Was allowance	9.1. If patient-level data on costs or consequences were available, were appropriate
made for uncertainty	statistical analyses performed?
in the estimates of	9.2. If a sensitivity analysis was employed, was justification provided for the ranges or
costs and	distributions of values (for key study parameters), and the form of sensitivity analysis
consequences?	used?
-	9.3. Were the conclusions of the study sensitive to the uncertainty in the results, as
	quantified by the statistical and/or sensitivity analysis?
Q10. Did the	10.1. Were the conclusions of the analysis based on some overall index or ratio of costs
presentation and	to consequences (for example, cost-effectiveness ratio)? If so, was the index interpreted
discussion of study	intelligently or in a mechanistic fashion?
results include all	10.2. Were the results compared with those of others who have investigated the same
issues of concern to	question? If so, were allowances made for potential differences in study methodology?
users?	10.3. Did the study discuss the generalizability of the results to other settings and
	patient/client groups?
	10.4. Did the study allude to, or take account of, other important factors in the choice or
	decision under consideration (for example, distribution of costs and consequences, or
	relevant ethical issues)?
	10.5. Did the study discuss issues of implementation, such as the feasibility of adopting
	the 'preferred' programme given existing financial or other constraints, and whether any
	freed resources could be redeployed to other worthwhile programmes?

^aDrummond MF, Drummond MF. *Methods for the economic evaluation of health care programmes*. 3rd ed. Oxford ; New York: Oxford University Press; 2005.