**Quality checklist for questionnaire surveys.** [1]

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**Author**

- Apostolakis 2012 [2]
- Cook-Craig 2009 [3]
- Usher 2012 [5]
- Frisch 2014 [7]
- Fuoco 2014 [8]
- Ying Mai 2014 [9]
- Deen 2013 [10]
- Tunnecliff 2015 [12]
- Loeb 2014 [13]

**Quality**

- Y
- N
- R

**Research question and design**

1. Was there a clear research question, and was this important and sensible?
2. Was a questionnaire the most appropriate research design for this question?

**Sampling**

1. What was the sampling frame and was it sufficiently large and representative?
2. Did all participants in the sample understand what was required of them, and did they attribute the same meaning to the terms in the questionnaire?

**Instrument**

1. What claims for reliability and validity have been made, and are these justified?
2. Did the questions cover all relevant aspects of the problem in a non-threatening and on-directive way?
3. Were open-ended (qualitative) and closed-ended questions used appropriately?
4. Was a pilot version administered to participants representative of those in the sampling frame, and the instrument modified accordingly?

**Response**

1. What was the response rate and have non-responders been accounted for?

**Coding and analysis**

1. Was the analysis appropriate (eg statistical analysis for quantitative answers, qualitative analysis for open-ended questions) and the correct technique/s used?
2. Were outcomes measure by ‘blinded’ observers or were they objectively verified (eg quantitative measure recorded prospectively and independently)?

**Presentation of results**

1. Have all relevant results (‘significant’ and ‘non-significant’)?
2. Is there any evidence of data dredging? (ie analyses that were not ‘hypothesis driven’)?
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References


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McGowan BS, Wasko M, Vartabedian BS, Miller RS, Freiherr DD, Abdolrasulnia M. Understanding the factors that influence the adoption and meaningful use of social media by physicians to share medical information. Journal of Medical and Internet Research 2012;14(5). PMID:23006336