# Science perspective | Critical appraisal checklist

Payam Rezaie

**Title of paper**:

**Reference**:

…………………………………………………………………………………………………………………………………………………………….

|  |  |  |  |
| --- | --- | --- | --- |
| Criterion | YES | NO | N/A\* |
| The purpose of the study was clear |[ ] [ ] [ ]
| A suitable literature review was present and covered the topic adequately |[ ] [ ] [ ]
| The style of writing was easy to understand |[ ] [ ] [ ]
| The paper was well laid out and easy to follow |[ ] [ ] [ ]
|  |  |  |  |
| The research design was clearly described |[ ] [ ] [ ]
| The research design was consistent with the aims and the research question |[ ] [ ] [ ]
| The research design was sensible and adequately implemented |[ ] [ ] [ ]
| An analysis of the sample size required was carried out |[ ] [ ] [ ]
| The sample size was adequate |[ ] [ ] [ ]
| The study was appropriately controlled |[ ] [ ] [ ]
| Groups were comparable in all aspects except for the variable being studied |[ ] [ ] [ ]
| Data collection methods were adequately described and were appropriate |[ ] [ ] [ ]
|  |  |  |  |
| The data were reported with sufficient detail |[ ] [ ] [ ]
| Statistical tests were described and were appropriate for the type of data involved |[ ] [ ] [ ]
| Baseline differences and confounding variables were adjusted for |[ ] [ ] [ ]
| The authors did not make assumptions about the nature and direction of causality |[ ] [ ] [ ]
| *p* values and confidence intervals were calculated and interpreted appropriately |[ ] [ ] [ ]
| The results presented were accurate and clear |[ ] [ ] [ ]
|  |  |  |  |
| The Discussion corresponded to, and was supported by, the data |[ ] [ ] [ ]
| Discussion statements were reasonable and logical |[ ] [ ] [ ]
| The Results were discussed with reference to other important literature |[ ] [ ] [ ]
| The Conclusions agreed with the study’s predetermined purpose |[ ] [ ] [ ]
| The limitations of the study were listed |[ ] [ ] [ ]
| The Discussion and Conclusion do not speculate too far beyond what has been shown |[ ] [ ] [ ]
| References were accurate and appropriately used  |[ ] [ ] [ ]
| References were from respected (credible) evidence sources |[ ] [ ] [ ]

\* not applicable

**Key points:**

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**Overall impression:**

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