



nevertheless, it is 89 patients about drug “Y”. This indicates greater effectiveness of drug “Y” than “X”. So, NNT is the most appropriate index to determine the effectiveness of an intervention.

## References

1. Sharon E. Straus, et al; Evidence-Based Medicine: How to Practice and Teach It, 4e (Straus, Evidence-Based Medicine), 2011.
2. Soltani A, et al; Evidence based Medicine. Tehran University of medical sciences Press, 2005.
3. Hill J, Bullock I, Alderson P. A summary of the methods that the National Clinical Guideline Centre uses to produce clinical guidelines for the National Institute for Health and Clinical Excellence. *Ann Intern Med.* 2011;154:752-7.
4. Kilkenny C, Parsons N, Kadyszewski E, et al. Survey of the quality of experimental design, statistical analysis and reporting of research using animals. *PLoS One.* 2009;4:7824
5. A-W Chan, F Song, A Vickers, et al. Increasing value and reducing waste: addressing inaccessible research. *Lancet* (2014) published online Jan 8. [http://dx.doi.org/10.1016/S0140-6736\(13\)62296-5](http://dx.doi.org/10.1016/S0140-6736(13)62296-5).
6. Paul Glasziou, Douglas G Altman, Patrick Bossuyt, Isabelle Boutron, Mike Clarke, Steven Julious, Susan Michie, David Moher, Elizabeth Wager, Reducing waste from incomplete or unusable reports of biomedical research, *The Lancet.* 2014;383(9913):18-24.
7. Elm E, Altman DG, Egger M, Pocock SJ, Gøtzsche PC, Vandenbroucke JP. STROBE Initiative. The Strengthening the Reporting of Observational Studies in Epidemiology (STROBE) statement: guidelines for reporting observational studies. *Lancet.* 2007;370:1453–7.
8. Ioannidis JP. Why most published research findings are false. *PLoS Med.* 2005;2:e124. TA Lang, M Secic How to report statistics in medicine (2nd edn.) American College of Physicians, Philadelphia.
9. TA Lang, M Secic. How to report statistics in medicine (2nd edn.) American College of Physicians, Philadelphia. 2006.
10. Murad M, Montori VM, Ioannidis JA, et al. How to read a systematic review and meta-analysis and apply the results to patient care: Users’ guides to the medical literature. *JAMA.* 2014;312(2):171-9.
11. Every-Palmer S, Howick J. How evidence-based medicine is failing due to biased trials and selective publication. *J Eval Clin Pract.* 2014.
12. PM Bossuyt, JB Reitsma, DE Bruns, for the Standards for Reporting of Diagnostic Accuracy, et al. Towards complete and accurate reporting of studies of diagnostic accuracy: the STARD initiative. *BMJ.* 2003;326:41–4
13. Turner EH, Matthews AM, Linardatos E, Tell R, Rosenthal R. Selective publication of antidepressant trials and its influence on apparent efficacy. *N Engl J Med.* 2008;358:252-60.
14. W Bouwmeester, NP Zuithoff, S Mallett, et al. Reporting and methods in clinical prediction research: a systematic review. *PLoS Med.* 2012;9:1–12.
15. Moynihan R, Doust J, Henry D. Preventing overdiagnosis: how to stop harming the healthy. *BMJ.* 2012;344:e3502.
16. D Fanelli. How many scientists fabricate and falsify research? A systematic review and meta-analysis of survey data. *PLoS One.* 2009;4:5738.
17. RHH Groenwold, AMM Van Deursen, AW Hoes, E Hak. Poor quality of reporting confounding bias in observational intervention studies: a systematic review. *Ann Epidemiol.* 2008;18:746–51.

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