

*Have a Great Day*  
*Good Morning*





# BLINDING

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# CONTENTS

- Introduction
- Blinding
- Types of blinding
  - Single blinding
  - Double blinding
  - Triple blinding
- Conclusion
- References



# INTRODUCTION



# BIAS



# Blinding

## Single Blind Trial



STUDY GROUP

CONTROL GROUP



# Single Blind Trial

The effects of combination treatment with a long-acting  $\beta_2$ -agonist and a corticosteroid on salivary flow rate, secretory immunoglobulin a, and oral health in children and adolescents with moderate asthma: a 1-month, single-blind clinical study

Cigdem Sag, MD, Feyza Otan Ozden, PhDM Dent Sc, Gokhan Acikgoz, PhD, M Dent Sc, Fehim Yasar Anlar, MDcorrespondenceemail

The international peer-reviewed journal of drug therapy,  
October 2007Volume 29, Issue 10, Pages 2236–2242



# Blinding

## Double Blind Trial



STUDY GROUP



CONTROL GROUP





# Double Blind Trial

## Efficacy of topical *Aloe vera* in patients with oral lichen planus: a randomized double-blind study

N. Salazar-Sánchez,  
P. López-Jornet,  
F. Camacho-Alonso and  
M. Sánchez-Siles

Journal of Oral Pathology & Medicine  
Volume 39, Issue 10, pages 735–740, November 2010



# Blinding

## Triple Blind Trial



## Triple Blind Trial

Effect of oil pulling on plaque induced gingivitis: A randomized, controlled, triple-blind study

Sharath Asokan, Pamela Emmadi, Raghuraman Chamundeswari

Indian journal of dental research, Year : 2009 | Volume : 20 |  
Issue : 1 | Page : 47-51





# Conclusion

One of the main concerns in an experimental study is bias. It can occur at various stages of the trial, from initial design through data analysis and interpretation. The general solution to the problem of bias is to keep the subject and investigator blinded to the identity of the assigned intervention.



# References

- ❖ K.park, park's textbook of preventive and social medicine, 22<sup>nd</sup> edition, banarsidas bhanot publishers
- ❖ <http://www.rand.org/publications/classics/randomdigits>
- ❖ Dictionary.com: <http://dictionary.reference.com/browse/bias>
- ❖ Kenneth f schiz, blinding in randomised trials, hiding who got what, epidemiology series, vol 359, february 23,2002.
- ❖ mahajan and gupta, textbook of preventive and social medicine, 4<sup>th</sup> edition.
- ❖ Hulley et al, designing clinical research, 2<sup>nd</sup> edition, lippincott williams and wilkins, 2001.



# THANK YOU

