

Ophthalmic section

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Ophthalmic Section



- In 2011, 7 letters were published in the British Journal of Ophthalmology entitled "Incorrect Statistical Analysis" reporting on statistical or design errors in papers which had been published in the BJO
- In 2012, two papers were published in leading US Ophthalmic Journals raising concern with regards to the statistical validity of research published in the ophthalmic domain ^{1,2}

1 Lee CF, Cheng ACO, Fong DYT, Ophthalmology. 2012 Apr;119(4):869-72 Eyes or Subjects: Are Ophthalmic Randomized Controlled Trials Properly Designed and Analysed?

2 Karakosta A, Vassilaki M, Plainis S, Elfadl NH, Tsilimbaris M, Moschandreas J. Am J Ophthalmol. 2012 Mar;153(3):571-579.e1. Choice of Analytic Approach for Eye-Specific Outcomes: One Eye or Two

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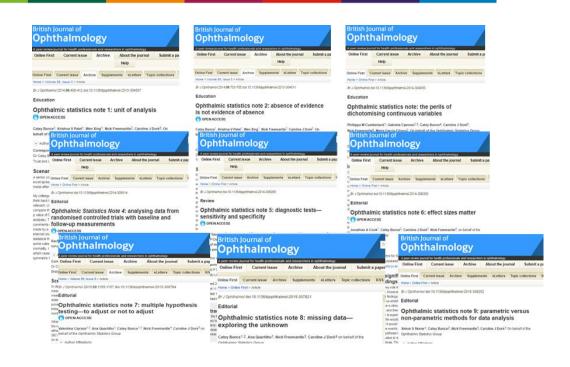


- 3.4.2012 meeting held at NIHR Moorfields BRC, 14 medical statisticians from various institutions across England
- Discussed statistical traps for the unwary ophthalmic researcher and merit in "raising the quality of statistics in ophthalmic publications"
- Approached the British Journal of Ophthalmology who agreed to publish a "drip-feed" series with applied ophthalmic examples
- Set up the Ophthalmic Statistics Group hosted by the BRC for Ophthalmology at Moorfields



Ophthalmic statistics notes

National Institute for Health Research



NHS

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- Championing collaboration between statisticians and non statisticians who are working in ophthalmic research
- Promoting good statistical practise with a view to getting better research conducted and published for the benefit of patients









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Different members have led on different approaches



Future plans



- Meeting planned on the 10th November 2017 follow-up to meeting with Professors Martin Bland and David Garway Heath, exploring misuse of the correlation coefficient in method agreement studies in ophthalmology
- Discussing with members of the OSG whether they are still keen for closed statistics meetings
- If so, possible future events will have an Open Session for all and a Closed Session for "statisticians" only