Detecting and downweighting outlying trials in network meta-analysis

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Abstract: Network meta-analysis (NMA) expands the scope of a conventional pairwise meta-analysis to simultaneously handle multiple treatment comparisons. However, some trials may appear to deviate markedly from the others and thus be inappropriate to be synthesized in the NMA. In addition, the inclusion of these trials in evidence synthesis may lead to bias in estimation. Therefore the presence of such outliers could substantially alter the conclusions in a meta-analysis. This paper proposes a methodology for identifying and, if desired, downweighting studies that do not appear representative of the population they are thought to represent. The proposed methodology is then applied to a diabetes dataset from the literature.

Where: Phfm Seminar Room 2, Falmouth Building, Entrance 5, Health Sciences Campus, UCT

When: 12:00 - 13:00, Tuesday, April 11, 2017.

Please RSVP for to biostats.seminars.uct@gmail.com or fill in brief survey at http://goo.gl/forms/4BQVKffu21 before end of day Friday prior.

Upcoming:
May 23 – Introduction to Joint Models – Elton Mukonda