Reviewer's report

**Title:** Is it time to switch to doxycycline from azithromycin for treating genital chlamydial infections? Modelling the impact of autoinoculation from the gastrointestinal tract to the genital tract

**Version:** 1  **Date:** 9 February 2015

**Reviewer:** Henry John Christiaan de Vries

**Reviewer's report:**

This paper addresses an interesting and important point in the treatment of urogenital chlamydia infections in women. Although not many new data are presented, the paper is concise and raises the problem with great clarity.

I have only one remark: in the last paragraph of the method section lines 81-85 it is stated: "A subgroup analysis of just those studies that did not measure doxycycline compliance found a very similar random effects pooled estimate for difference in treatment efficacy to the estimate when all studies were included (1.4% and 1.5% respectively) [3], suggesting that these values are sufficiently close to real-world ‘use-effectiveness’ for the purposes of our study." Shouldn't it on the contrary be that an analysis was done on those studies that DID measure compliance since those data are necessary for efficacy studies?

**Level of interest:** An article of importance in its field

**Quality of written English:** Acceptable

**Statistical review:** No, the manuscript does not need to be seen by a statistician.

**Declaration of competing interests:**

I declare that I have no competing interests