**Understanding the role of global food trade on the transmission dynamics of antibiotic-resistant foodborne bacteria**

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**ABSTRACT**

**INTRODUCTION**

**METHODS**

**RESULTS**

**Section 1**

Result X- Show model fit?

Result 1 - Basic Model Output of the effect of withdrawing antibiotic usage on levels of attrituable resistance

* Three fitted models – baseline, pigs and maybe like lamb?
* Supplementary figures to show what also happens to fbd etc.

Result 2 – sensitivity analyses lhs-pRCC and eFAST

* Supplementary material monotonicity plots

Result 3 – effect of altering the ratio of FBD and resistance on the results

* General uncertainty analysis
* It would be interesting to include the foodborne disease as a ratio of the original domestic one – import and seeing
* See the effect on the change in overall human resistance upon curtailment

**Section 2**

Result X - Show model fit?

Result 4 - Basic Model Output of the effect of withdrawing antibiotic usage on levels of attributable resistance

* Pick a single model to work with – chose baseline since it’s more rounded parameter set

Result 5 – The complex changing of usage plot

* Pick a single model to work with – chose baseline since it’s more rounded parameter set

Result 6

* What happens if key parameters change
* We can do a domestic change – keep the fitted parameters – but just alter certain parameters (such as the reduction in contamination)
* Also a side analysis with the import parameters – draw from distribution etc

**DISCUSSION**