**EE3211 Modelling Techniques**

**Week 6 Assignment**

Sexually transmitted disease: Suppose a study examines the relative efficacy of penicillin and spectinomycin in treating gonorrhea. Three treatments are considered:

1. penicillin
2. spectinomycin, low dose
3. spectinomycin, high dose

Three possible responses are recorded:

1. positive smear
2. negative smear, positive culture
3. negative smear, negative culture

The data is presented below:

**Table. Efficacy of different treatments for gonorrhea.**

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Q1. Is there any relationship between the type of treatment and the response? (5 points)

Q2. Suppose either a positive smear or a positive culture is regarded as a positive response and distinguished from the negative smear, negative culture response. Is there an association between the type of treatment and this measure of response? (5 points)



