Appendix 2. Algorithm used to assign probability that infection had occurred

$p = \exp(\alpha + \beta_1 x_1 + \ldots + \beta_n x_n)/(1 + \exp(\alpha + \beta_1 x_1 + \ldots + \beta_9 x_9))$, where

$\alpha = -5.16$

$\beta_1 = +3.03$

$x_1 =$ dispensing any of five selected antibiotics

$\beta_2 = +6.06$

$x_2 =$ any selected diagnosis in hospital

$\beta_3 = +1.05$

$x_3 =$ any selected diagnosis in emergency dept (if x2 = 0)

$\beta_4 = +2.98$

$x_4 =$ any selected diagnosis in outpatient setting

$\beta_5 = +2.91$

$x_5 =$ selected bacterial culture

$\beta_6 = +1.91$

$x_6 =$ wound care

$\beta_7 = -1.79$

$x_7 =$ interaction of x4 and x6

$\beta_8 = -2.70$

$x_8 =$ interaction of x4 and x2

$\beta_9 = -2.21$

$x_9 =$ interaction of x4 and x5