Program Name: bi1st

SAS Language:

Objective: Determining the critical constants and the power of the UMP test for

equivalence of a single binomial proportion to a fixed reference value

Input:

ALPHA significance level

Ν sample size

P1 lower limit of the equivalence range upper " " " " " " " "

P2

Output:

ALPHA value read from input file Ν 11 11 P1 11 11 P2

C1 left-hand limit of the optimal critical interval right-hand " " " " " " " " " " " " " C2

probability of a randomized decision in favour of equivalence at C1 GAM1 GAM2

POWNONRD power of the nonrandomized version of the test against the alternative

P0=(P1+P2)/2

POW power of the UMP test against P0=(P1+P2)/2