Program Name: cf\_reh\_exact

SAS/IML Language:

Objective: Computation of exact confidence bounds to the relative excess

heterozygosity (REH) exhibited by a SNP genotype distribution

Input:

X1 observed frequency of the homozygous genotype of the first kind

" " " heterozygotes X2

Х3 observed frequency of the homozygous genotype of the second kind

ALPHA 1 – confidence level SW width of search grid

TOL tolerable difference between the actual and the target value of the function

defining the confidence bound

maximum number of iteration steps ITMAX

Output:

X1 see list of input parameters X2 Х3 ALPHA SW

lower confidence bound at exact one-sided confidence level 1 - ALPHA C\_I\_exact

C r exact