

May 27, 1942

Dear Race,

I have looked through the Acholuric paper, and think it will be a valuable one. The only statistical trouble is with certain four-fold tables, e.g. Table 3 on p. 5, where what you have is four frequencies which may, or may not, be in proportion, and have calculated expectations from the marginal totals. In such cases there is only one degree of freedom, and actually Table 3 should be regarded as showing a significant difference, however unreasonable this may be. There are one or two other tables of the same sort. If the difference here is admitted to be significant, it rather cuts the ground away from the whole business of partitioning the dead children.

What you have done towards showing that these probably contain a higher proportion of Alcholurics than the living seems well worth doing, but there is no point in going further. I have put a rather simpler form of the expression on p. 18; but would it not be well to illustrate its application, seeing you have the essential figures worked out in table 9, e.g.,  $1.645 \times .159 - .1685$  gives the contents of the complicated square root, after which the rest of the calculation is easy.

I am returning the paper at the same time with a few notes

which I hope may be of use, such as that of the four-fold table from table 6. In some cases this exact treatment is easier than any other, and there is <sup>is</sup> everything to be said for using it.

Yours sincerely,

Paper returned.