

## Comparing methods of measurement: why plotting difference against standard method is misleading

J Martin Bland, Douglas G Altman

### Summary

When comparing a new method of measurement with a standard method, one of the things we want to know is whether the difference between the measurements by the two methods is related to the magnitude of the measurement. A plot of the difference against the standard measurement is sometimes suggested, but this will always appear to show a relation between difference and magnitude when there is none. A plot of the difference against the average of the standard and new measurements is unlikely to be misled in this way. We show this theoretically and by a practical example.

Lancet 1995; **346**: 1085-87

### Introduction

In earlier papers<sup>1,2</sup> we discussed the analysis of agreement between methods of clinical measurement. We had two issues in mind: to demonstrate that the analyses then in use were incorrect and misleading, and to recommend a more appropriate method. We saw the aim of such studies as to determine whether two methods agreed sufficiently well for them to be used interchangeably. This led us to suggest that the analysis should be based on the differences between measurements on the same subject by the two methods. The mean difference would be the estimated bias, the systematic difference between methods, and the SD of the differences would measure random fluctuations around this mean. We recommended 95% limits of agreement, mean difference plus or minus 2 (more precisely, 1.96) SDs which would tell us how far apart measurements by the two methods were likely to be for most individuals.

Figure 1 shows a typical data set, the measurement of systolic blood pressure by a test method, finger pressure, and a standard method, arm blood pressure. This is a random subsample of 200 observations from a larger data set.<sup>3,4</sup> The subsample was taken to avoid cluttered graphs. The mean difference, finger minus arm, is 4.3 mm Hg and the SD is 14.6. Hence the lower 95% limit is  $4.3 - 1.96 \times 14.6 = -24$  mm Hg and the upper 95% limit is  $4.3 + 1.96 \times 14.6 = 33$  mm Hg. Thus we estimate that for 95% of subjects the finger measurement will be between 24 mm Hg below the arm measurement and 33 mm Hg above it.

For the mean and SD of the differences to be meaningful estimates we must assume that they are reasonably constant throughout the range of measurement. We suggested checking this assumption graphically.<sup>1,2</sup> The usual plot, method one versus method two, is inefficient because the points tend to be clustered

along the line of equality (figure 1), especially if the two methods give closely related measurements. We therefore proposed that the difference be plotted against the average of the measurements by the two methods (figure 2). In figure 2 we have also added the 95% limits of agreement and the regression line of difference on average. The main departure from assumptions we were expecting was an increase in variability, shown by an increase in the scatter of the differences, as the magnitude of the measurement increased. There may also be a trend in the bias, a tendency for the mean difference to rise or fall with increasing magnitude. Either would show that the methods did not agree equally through the range. In figure 2, for example, there is an increase in bias with magnitude, shown by the positive slope of the regression line. Such deviations from assumptions can often be dealt with by a suitable transformation, usually logarithmic.<sup>5</sup> In particular, this approach will be effective if the differences are proportional to the magnitude of the measurement.

The 95% limits of agreement approach has been widely adopted and *The Lancet* paper<sup>1</sup> widely cited.<sup>6</sup> However, it is sometimes argued that when one method may be regarded as a gold standard, it is presumably more accurate than the other method and so we should plot the difference against the gold standard.<sup>6,7</sup> We think that this idea is misguided and is likely to lead to misinterpretation. Here we will show why, and that the plot of difference against average is almost always preferable.

### Plotting difference against average

We denote our standard measurement by  $S$ , the new or test measurement by  $T$ , their variances by  $\sigma_S^2$  and  $\sigma_T^2$ , and their correlation by  $\rho$ . If the study includes a wide range of measurements, and unless the two methods of



Figure 1: Test and standard measurements, with line of equality

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# Comparing Methods Of Measurement Why Plotting Difference

**Lauren Gardner**



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web the itbs test also known as the iowa test of basic skills is a nationally administered set of exams designed to assess the abilities of students subjects tested include language

[iowa assessments wikipedia](#) - Jun 02 2023

in the science section each question is designed to test a student s understanding of science students must choose the best answer for each question sample question choices see more

**iowa tests of basic skills** - Jan 29 2023

web overview of the iowa tests the iowa tests of basic skills are a series of norm referenced measures that assess student achievement in kindergarten through grade 8

**iowa test of basic skills k12 academics** - Mar 31 2023

web the iowa tests of basic skills itbs offer educators a diagnostic look at how their students are progressing in key academic areas

[iowa test of basic skills itbs practice test tests com](#) - Jul 03 2023

in the social studies section students are tested on their knowledge of social studies the social studies section is divided into 4 sections civics government see more

**about the iowa tests of basic skills itbs funeducation** - Dec 28 2022

web the iowa tests of basic skills itbs are standardized tests provided as a service to schools by the college of education of the university of iowa the tests are

[itbs compendium iowa test basic skills itbs exam secrets test](#) - Nov 14 2021

web the davidson institute has partnered with northwestern university s center for talent development ctd to offer a davidson specific above grade level version of the iowa test of basic skills for 3rd 5th graders this davidson specific testing opportunity is limited to the dates listed on the eligibility assessment page

**iowa test of basic skills itbs davidson institute** - Feb 15 2022

## **Comparing Methods Of Measurement Why Plotting Difference**

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web the iowa test of basic skills exam itbs is a nationally standardized achievement test it is administered to students in grades k 12 itbs is available for homeschools and