

Figure 1

Relationship between log red cell ALAD activity and blood lead concentration, female dogs. Data obtained in previous study (11).

Calculated regression: $\log y = a + bx$ _____

●: ALAD activity not measurable. These points, arbitrarily placed below the limit of sensitivity _____, were omitted in the calculation of the regression.

Figures 2, A and B

The effect of whole blood dilution with plasma upon the normal red cell ALAD activity.

A: Optical density (O.D.), on linear scale, vs.
percent of blood contained in sample.
Calculated Regression: $y = a + bx$ _____
 $\pm$ 95% confidence limits: _____

B: Log optical density vs. percent of blood contained
in sample.
Curve fitted to data "by eye."

Figures 3, A and B

The effect of lead-containing blood on the red cell ALAD activity of normal blood.

A: Units of ALAD activity, or linear scale, versus percent of normal blood contained in sample.
Calculated regression, $y = a + bx$

- : ALAD activity not measurable. Not included in calculation of regression.

B. Log units ALAD activity versus percent of normal blood contained in samples.
Curve fitted to data "by eye."

- : ALAD activity not measurable. Arbitrarily placed below limit of sensitivity

Figure 4, A

Observed ALAD activity of mixtures of normal and lead-containing
bloods versus predicted values.

Calculated regression $y = a + bx$ 

$\pm$ 95% confidence limits 

Figure 4, B

Observed blood lead concentration and ALAD activity of mixtures
of normal and lead-containing bloods versus values predicted by
simple dilution:

Calculated blood lead regression

Calculated ALAD regression _____

Individual datum points: blood lead concentration o

ALAD activity Δ

Figures 5, A and B

Red cell ALAD activity of mixtures of normal and lead-containing bloods versus resultant lead concentration of the mixtures.

- A. Units of ALAD activity, a linear scale, versus blood lead concentration.
Calculation regression _____
- : ALAD activity not measurable. Arbitrarily positioned below sensitivity limit _____. Data not included in calculation of regression.
- B. Log units of ALAD activity versus blood lead concentration.
- : ALAD activity not measurable. Arbitrarily positioned below sensitivity limit _____.
Curve fitted to data "by eye."

Figure 6.

Observed ALAD versus predicted ALAD:

Regression calculated for values predicted by simple dilution 

"Ideal" regression, $y = x$, for all values of x 

Individual datum points for prediction of ALAD according to

the equation $\log y = 1.549 - 0.01908 x$ ; unmixed samples 