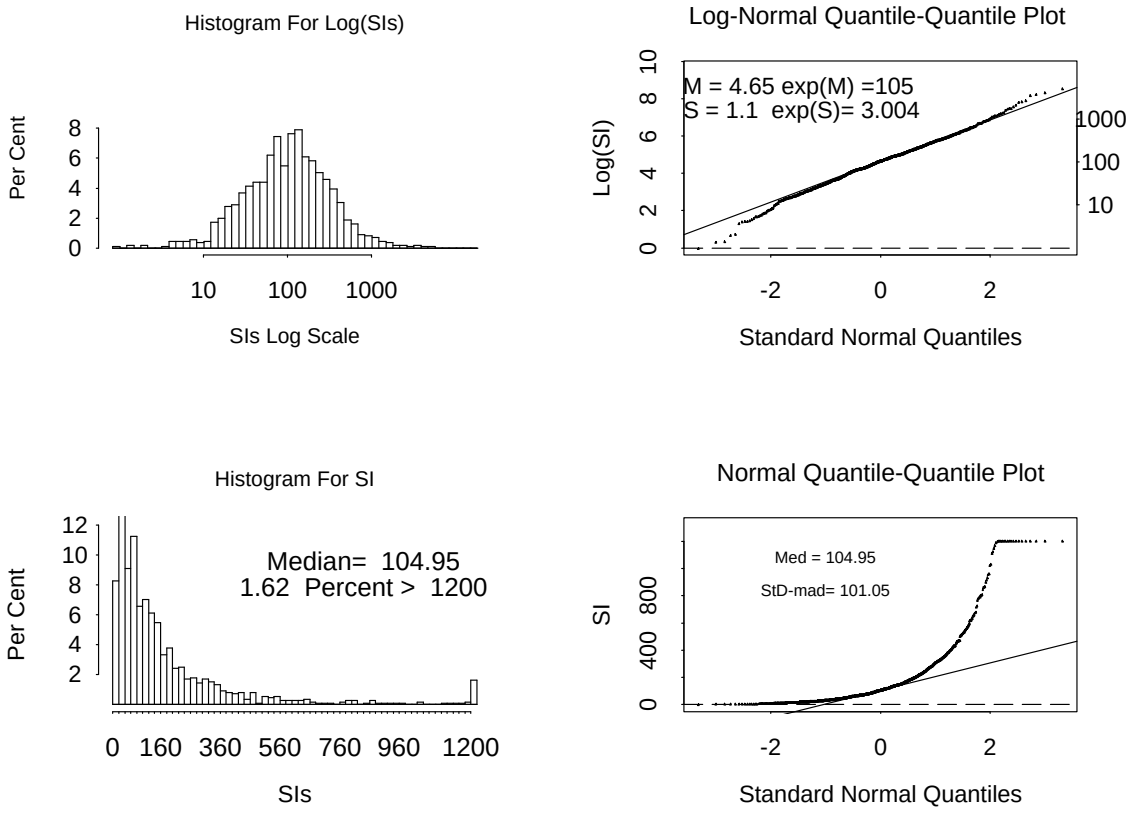
Y-12 Beryllium Workers Study (Serum 2): Results For PHA




NOTE: In Bottom Panels SIs Greater Than 1200 Replaced with 1200

**Fig. 1. The panels on the left show the histograms of the SIs. The top left is for Ln(SI)s and the bottom left is for the SIs. The panels on the right are normal q-q plots. If the data in the histogram (on the left) is normally distributed then the normal q-q plot (on the right) should look like a straight line. These plots clearly show that Ln(SI)s follow the normal distribution,i.e. the SIs follow the lognormal distribution.**

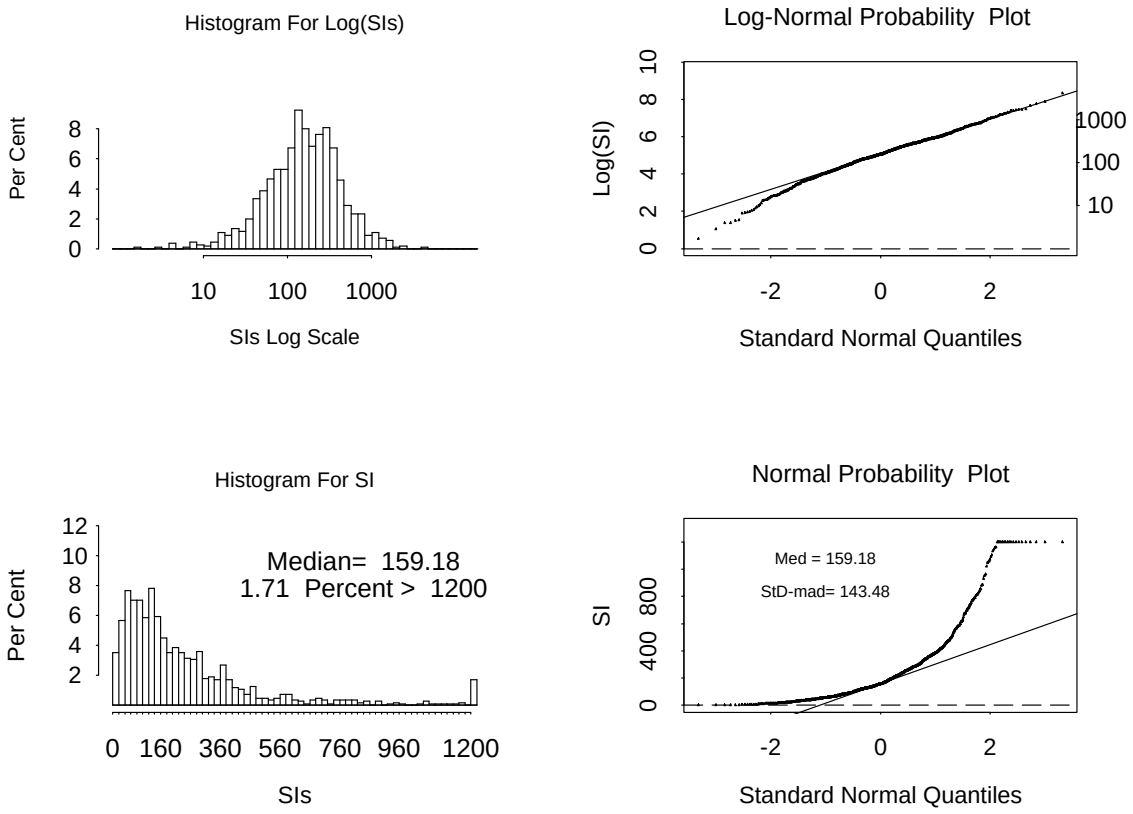



**Fig. 2. The panels on the left show the histograms of the SIs. The top left is for Ln(SI)s and the bottom left is for the SIs. The panels on the right are normal q-q plots. If the data in the histogram (on the left) is normally distributed the the probability plot (on the right) should look like a straight line. These plots clearly show that Ln(SI)s follow the normal distribution, i.e. the SIs follow the lognormal distribution.**

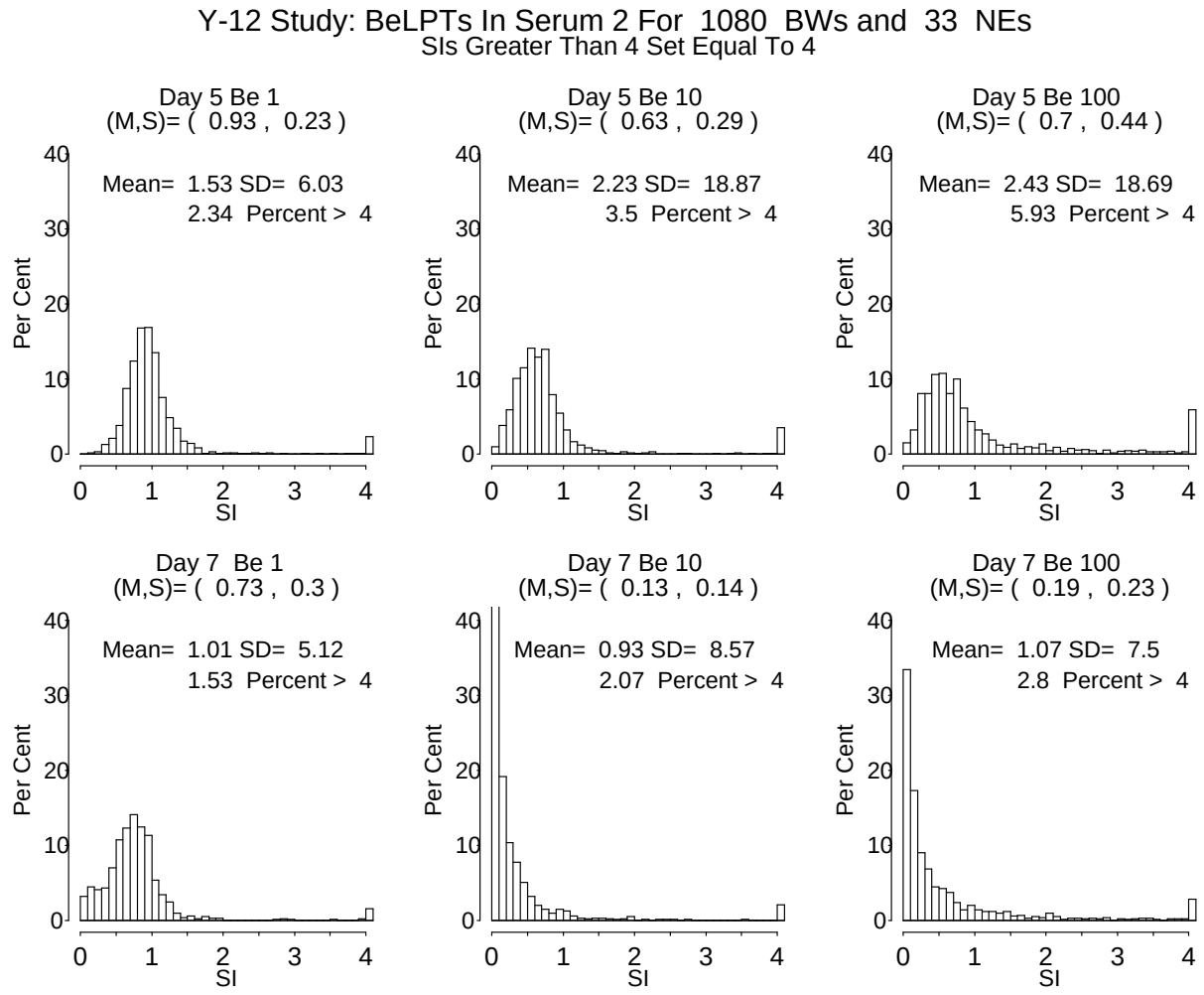



**Fig. 3. Histograms of the SIs for the beryllium workers and nonexposed BeLPTs. Numbers in parenthesis are the outlier restiant median(M) estimate of location and S the MAD estimate of the scale parameter. The mean and standard deviation (SD) for each distribution are also given.**

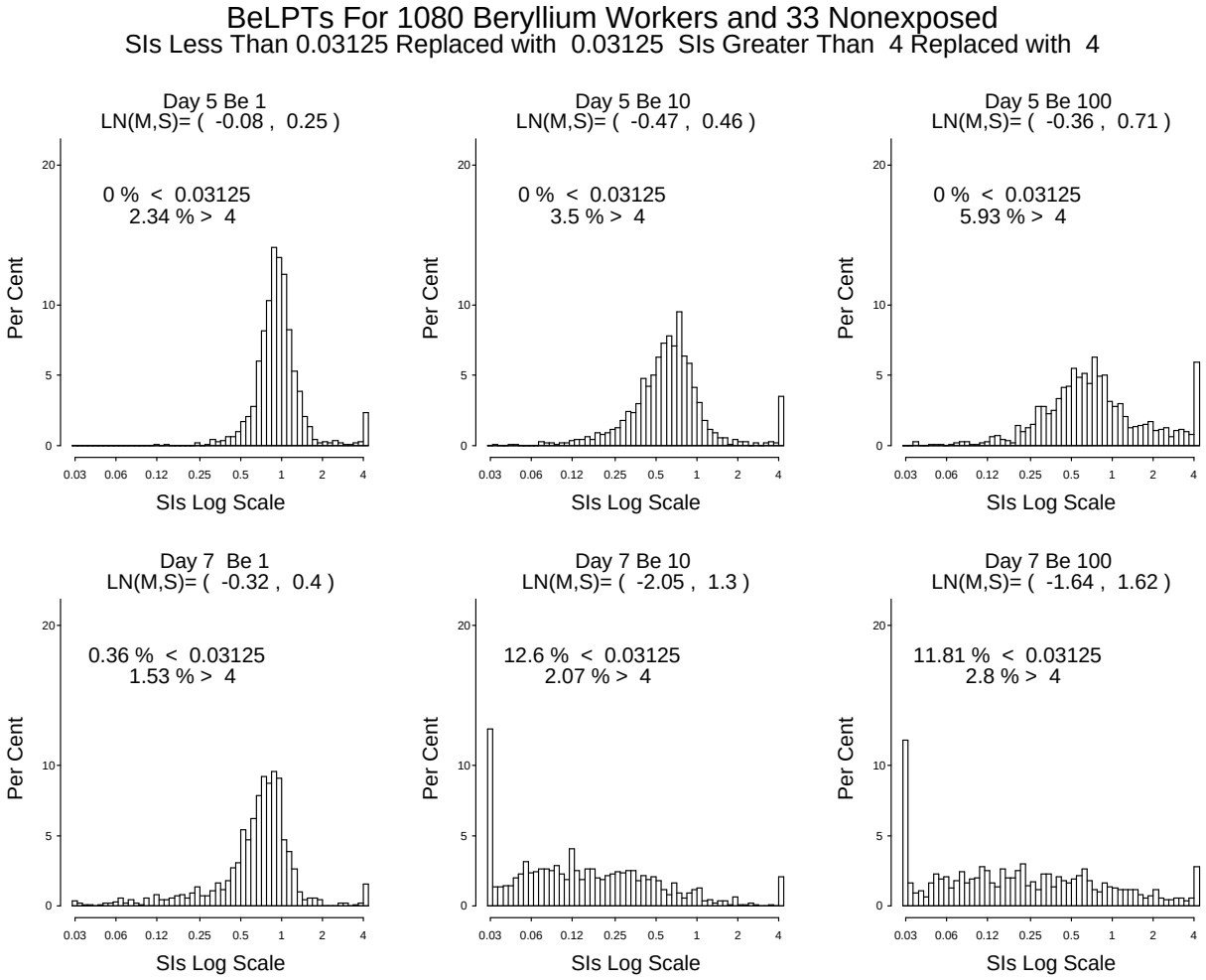



**Fig. 4. Histograms of the Ln(SI)s for the beryllium workers and nonexposeds BeLPTs. The outlier restiant estimates on the Ln scale of location M (the median) and S the MAD estimate of the scale parameter for each distribution are given in parenthesis.**

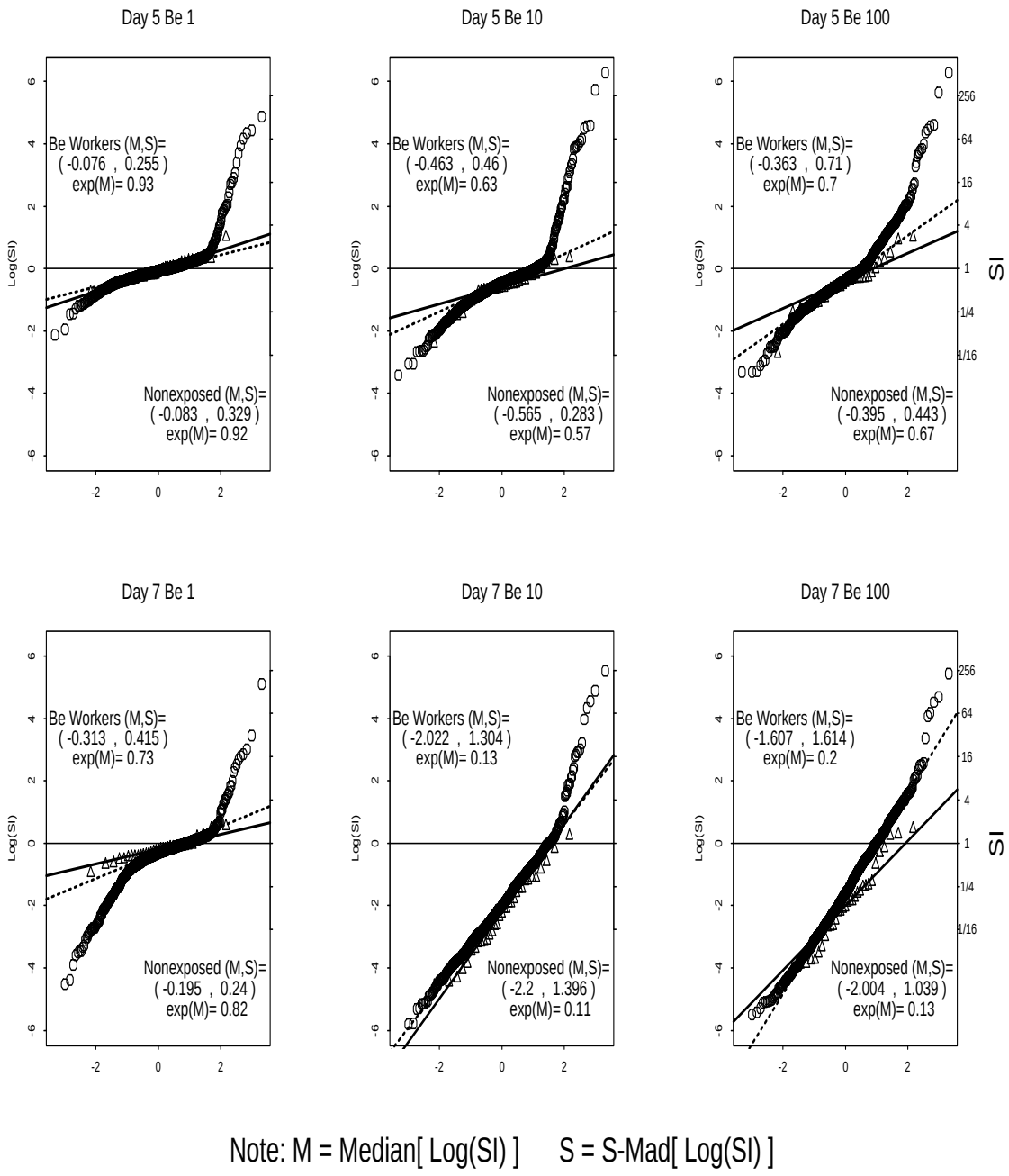



**Fig. 5. Normal q-q plots of Ln(si)s for each beryllium concentration on day 5 and day 7 for beryllium workers and nonexposed controls. The data values are shown on the vertical axis. The median (M), MAD scale estimate(S) of the Ln(si)s and exp(M) are listed on each plot. Values of M and S for beryllium workers (circles) are in upper left and nonexposed controls (triangles) are in lower right of each panel.**

Y-12 Beryllium Workers Study: Results For MAXIMUM SI

NOTE:SIs Less Than 0.25 Replaced with 0.25 SIs Greater Than 4 Replaced with 4

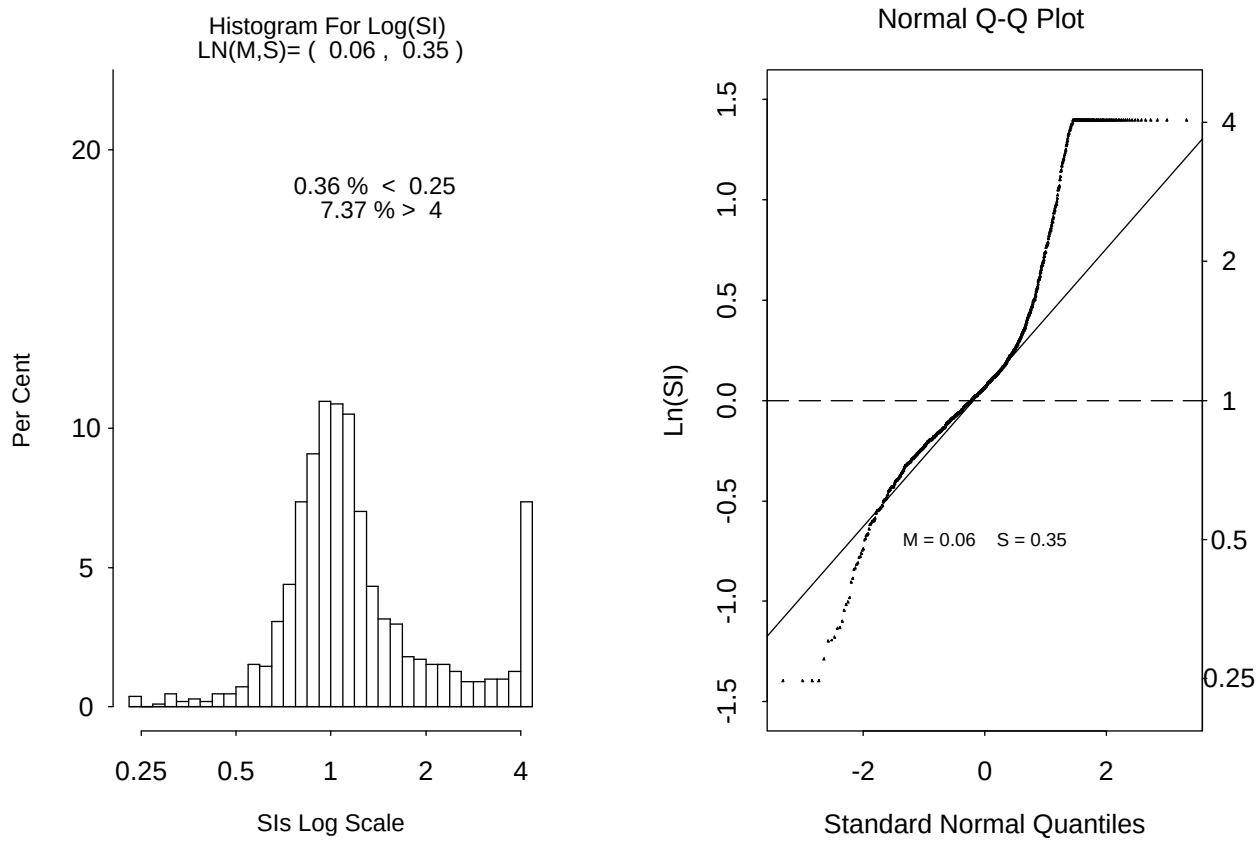



**Fig. 6. Histogram and Normal Q-Q Plots for Ln(SImax) for beryllium workers and nonexposed combined. The Median (M), and MAD scale estimate(S) of the Ln(SI)s are shown.**

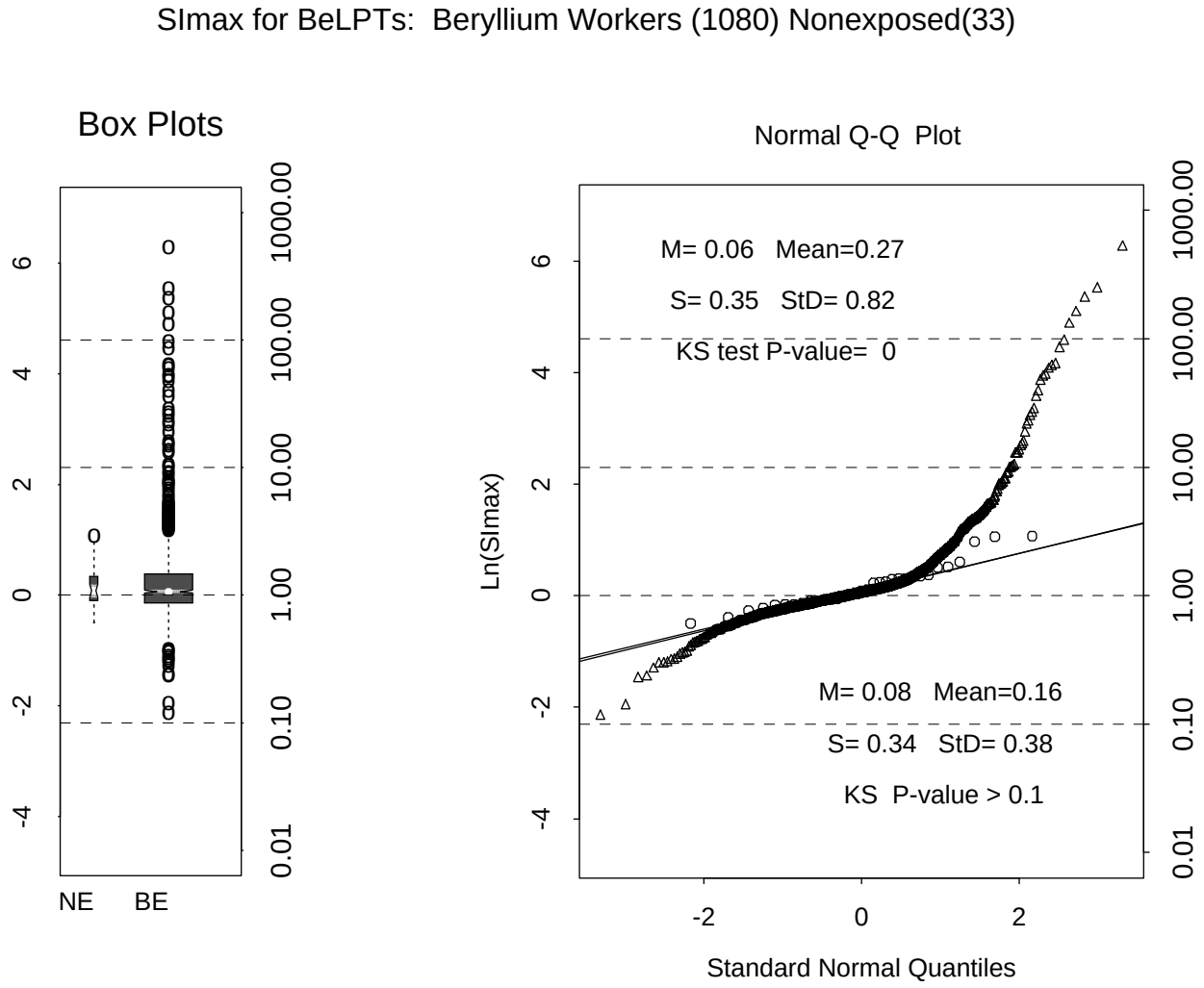



**Fig. 7. Boxplots (left panel) and normal q-q plots (right panel) for Ln(SImax). In the right panel summary statistics for nonexposed controls (circles) are shown in lower right, and for beryllium workers (triangles) in upper left of q-q plot. A small P value for Kolmogorov-Smirnov (KS) goodness-of-fit test indicates departure from normal distribution for LN(SImax).**

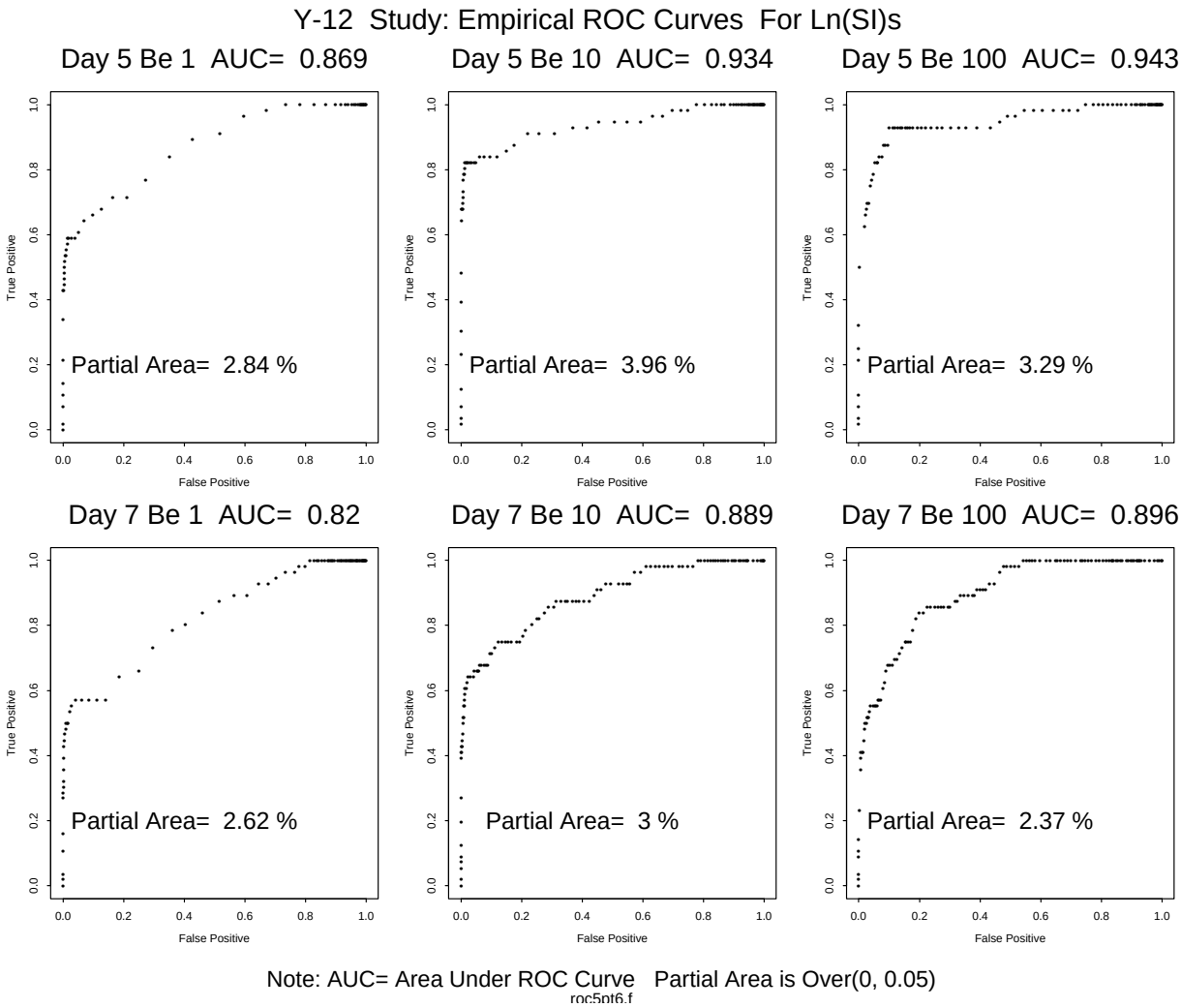



**Fig. 8. Empirical ROC curves for Ln(SI)s for Each Beryllium Concentration on Day 5 and Day 7. AUC is the area under the curve. The partial AUC shown in each plot is based on a nonpametric estimate of the area under the ROC curve from 0 to 0.05 on the x-axis (i.e., maximum FPR of practial interest is 0.05).**