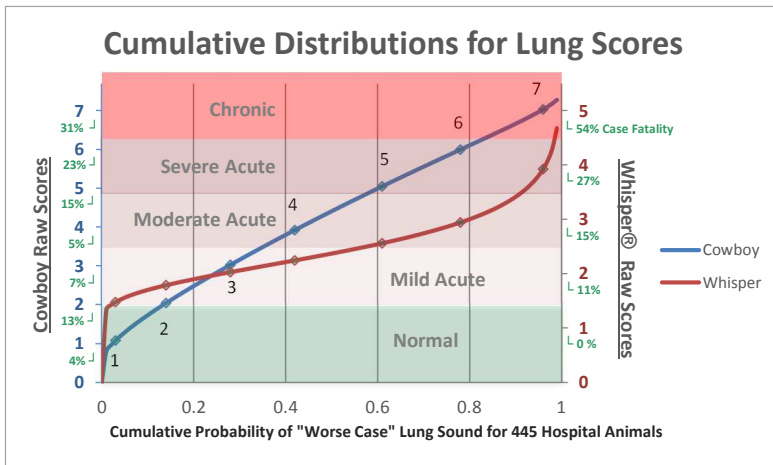


Comparison of Whisper® scoring versus human auscultation scoring.



What this graphs says:

Whisper's distribution of scores demonstrates decisive breakpoints that are clinically and operationally relevant and supported by case fatality rates.

How to read this graph:

Notice the curves show different patterns across the cumulative distributions. This helps us understand the general nature of the lung scoring scales for the cowboy and Whisper®. Also, notice specific points along the x-axis where we can directly compare and therefore convert from one scale score to the other.

The **blue line** is the cowboy cumulative distribution curve with left y-axis as the cowboy scale. The **red line** is Whisper's cumulative distribution curve with the right y-axis as Whisper's scale.

The curves have been matched up by using normalized distribution curves for each scale (see yellow graphs below).

The cumulative distribution can be thought of as *the probability of a worse-case lung sound*. The higher the score the more likely it's a worse case sound. Worse case sounds should associate with more severe disease and therefore be reflected by higher case fatality rates.

Example: Pick a point on the x-axis. E.g. 0.6 = point where 60% of the lung scores fall at or below on either curve. For the Cowboy that's a score of 4.99 (just under 5) for Whisper that's a score of 2.5.

Interpretation:

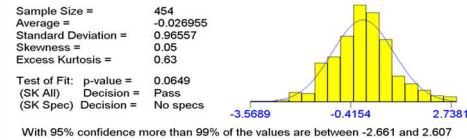
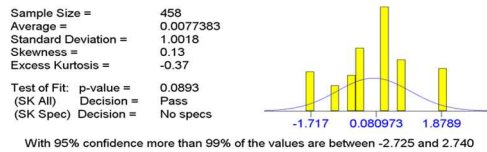
The cowboy cumulative distribution curve is quite linear which doesn't allow for readily identifiable break points (even at the extremes) to make clinical/operational/financial decisions on. The Whisper distribution curve on the other hand clearly indicates points of rapidly changing probabilities at the "worse-case" and "best-case" regions (extremes) with sharp changes in its scaled probability curve. Also, the Whisper® distribution shows increasing case fatality rates with increasing scores. This validates Whisper's scoring.

This data comes from "1st pulled" hospital animals.

Rank order of lung scores by case fatality rate

Cowboy	1 [4%] < 4 [5%] < 3 [7%] < 2 [13%] < 5 [15%] < 6 [23%] < 7 [31%]
Whisper®	1 [0%] < 2 [11%] < 3 [15%] < 4 [27%] < 5 [54%]

Cowboy Data



Whisper® Data

