The purpose of this article is to provide some context for psychological scientists in pursuing public policy analysis, especially as it relates to regulatory compliance and human service licensing data. Psychological scientists have dealt with non-parametric data very effectively in the past but in dealing with regulatory compliance and human service licensing data are just so different from previously measured data in that the nature of the data is nominal and extremely skewed to the point that several adjustments need to be made in order to analyze the data.

There are very logical reasons why regulatory compliance and licensing data are so extremely skewed. These data represent compliance with basic health and safety rules and regulations which provide the basic safeguards for children, youth, and adults while being cared for in a form of human services, such as child care, youth residential, or adult assisted living care. Very honestly a state agency would not want to find their regulatory compliance data being normally distributed because this would be an indication that the facilities were in low compliance with the state's rules and regulations. Having the regulatory compliance data be highly negatively skewed is actually a good result from a public policy standpoint but not from a statistical analytical standpoint. Having 50-60% of your scores within a three to five point range when there may be as many as 300-400 data points leaves very little variance in the data. It also leads to being very difficult to distinguish between the high performers and the mediocre performers. This finding has led to a theory of regulatory compliance in which substantial compliance but not full compliance with all rules and regulations is in the best interests of the clients being served (Fiene, 2019). In the regulatory science field, this has led to public policies emphasizing substantial compliance in order to be a licensed human service facility, such as a child care center, youth residential program, or an adult assisted living center.

The other aspect of regulatory compliance and licensing data for psychological scientists to consider is that the data are nominal in measurement, either a facility is in compliance or out of compliance with a specific rule or regulation. There are no gray areas, no measurement on an ordinal scale. There has been some discussion in the regulatory science field for the use of weighted risk assessment methodologies which could introduce more variance in the data based upon the assumption that all rules or regulations are not created equal nor are they administered equally (Stevens & Fiene, 2019). Another discussion revolves around the introduction of more
program quality into the basic health and safety rules and regulations that could extend the nominal compliance determination to an ordinal scale that goes beyond the basic compliance level (Fiene, 2018).

These measurement idiosyncracies of regulatory compliance and licensing data are presented for psychological scientists to consider if they begin to analyze public policies that involve basic health and safety rules and regulations which are very different from other public policies being promulgated by state and national governments.

For the interested reader, an international data base for regulatory compliance and human services licensing data has been established and maintained by the Research Institute for Key Indicators and Penn State University over the past 40 years at the following URL - (http://RIKInstitute.com)

References

Fiene (2018). The Implications in Regulatory Compliance Measurement When Moving from Nominal to Ordinal Scaling (RIKIREsearch Note). Research Institute for Key Indicators. (doi: 10.13140/RG.2.2.21926.57923)


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Richard Fiene is the sole author of this article and is responsible for its content.

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