## Some information about the data

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The data-set we have has 2 discrete value features/columns, 1 continuous value feature and 66 categorical value columns/features including the target which is the consistency flag.

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The data set has many missing values specifically in the features 'Race', 'Ethnicity','Region','Ntm_Speciality','Risk_Segment_During_Rx', 'Tscore_Bucket_During_Rx','Change_T_Score','Change_Risk_Segment'.
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There are outliers in the feature sets <a href="Dexa\_Freq\_During\_Rx">Dexa\_Freq\_During\_Rx</a>. The count of risks column is positively skewed. We neglected to deal with outliers because we plan on using random forest algorithm and decision trees which are robust against outliers.

To deal with the missing values we could drop all the missing value columns but this would result in a lot of data getting lost. One strategy would be to using the missing value as a label on its own, this may not be the most efficient approach. Another approach might be to fill the missing data with the most popular label. Another approach might be to use a machine learning algorithm to fill the missing data.

The approach we used was, we looked at features whose missing data was less than 5 % of the feature set and we dropped those. We then used one hot encoding to encode the remaining data and encoded the missing values as a feature. This may not be the best approach.