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Holly Erickson

Identifying Underdiagnosed Females with ADHD

Likelihood to be diagnosed with ADHD:

Boys = 12.9%

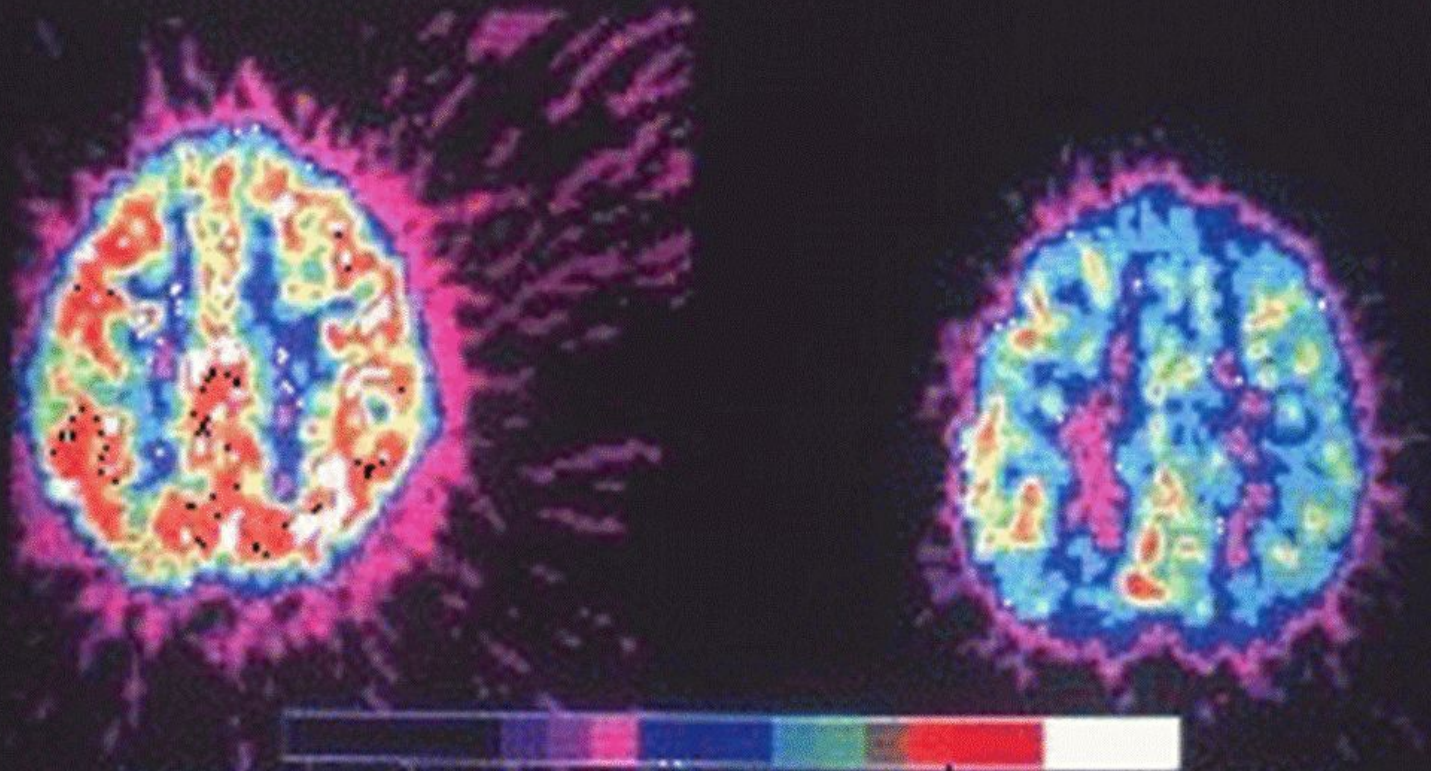
Girls = 5.6%

Artist: Lea Leani

<https://www.publicdomainpictures.net/en/view-image.php?image=295888&picture=depression>



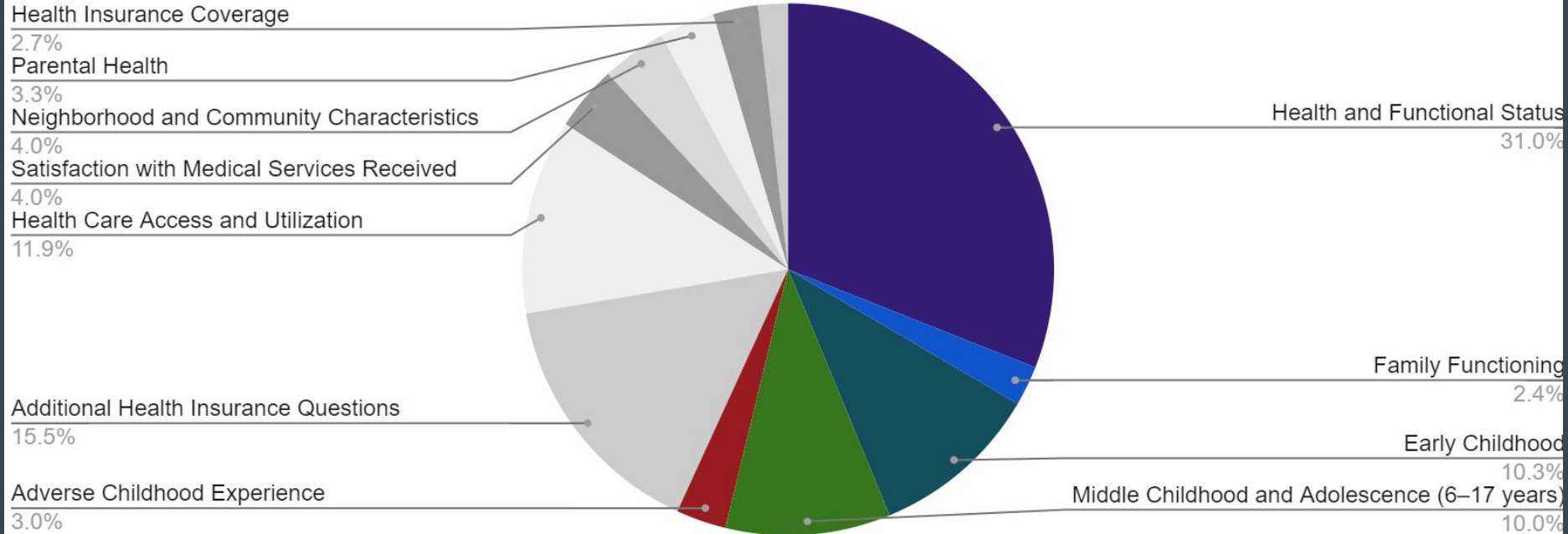
Zametkin et. al. 1990



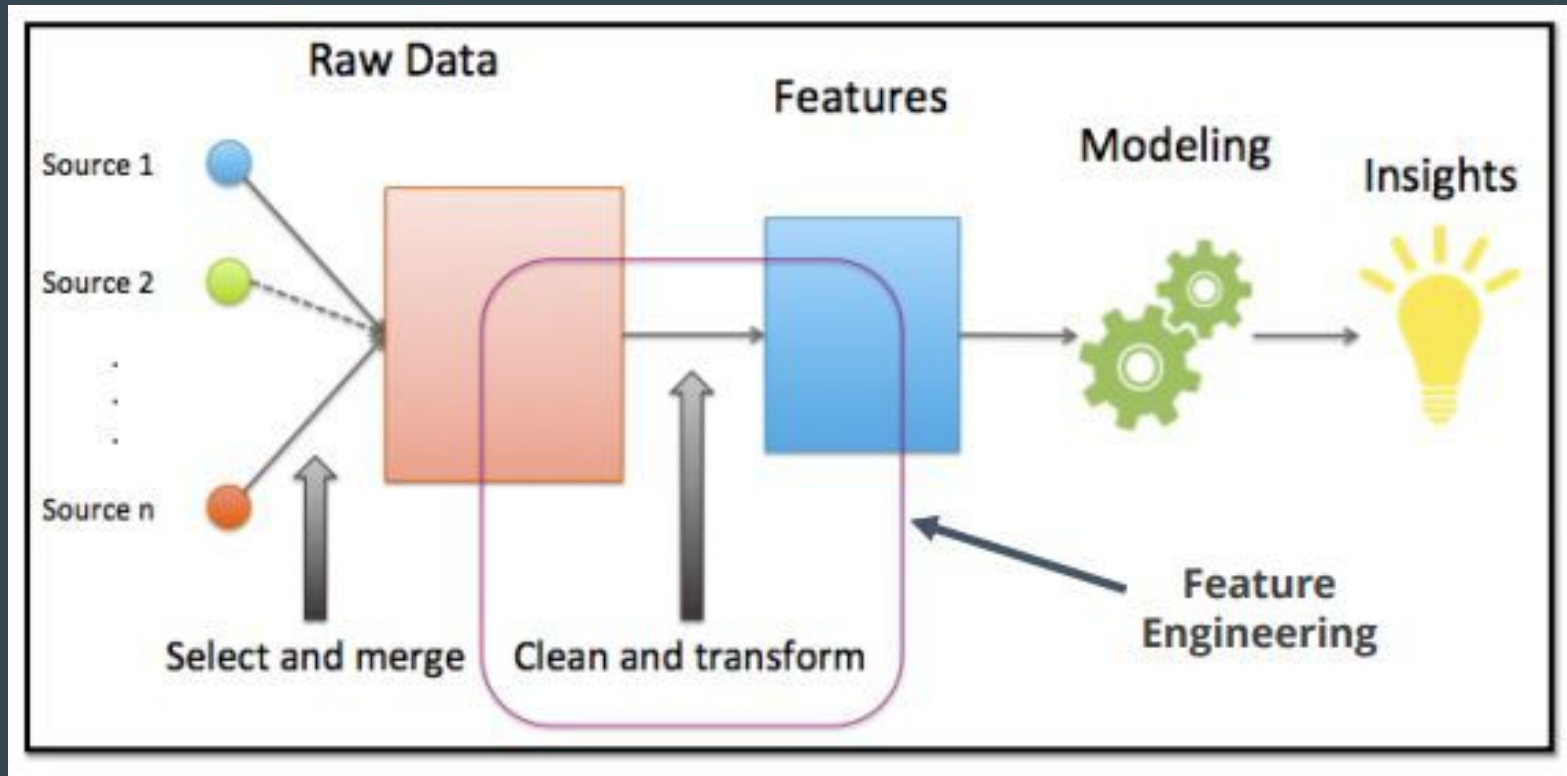
Section on Clinical Brain Imaging, LCM, NIMH



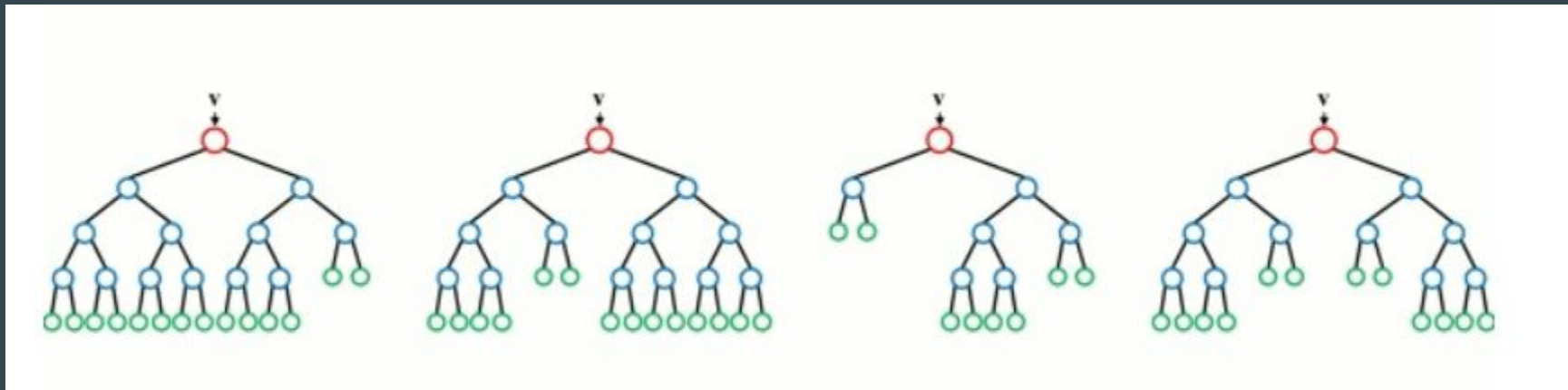
National Children's Health Survey Sections



Preprocessing and Feature Selection



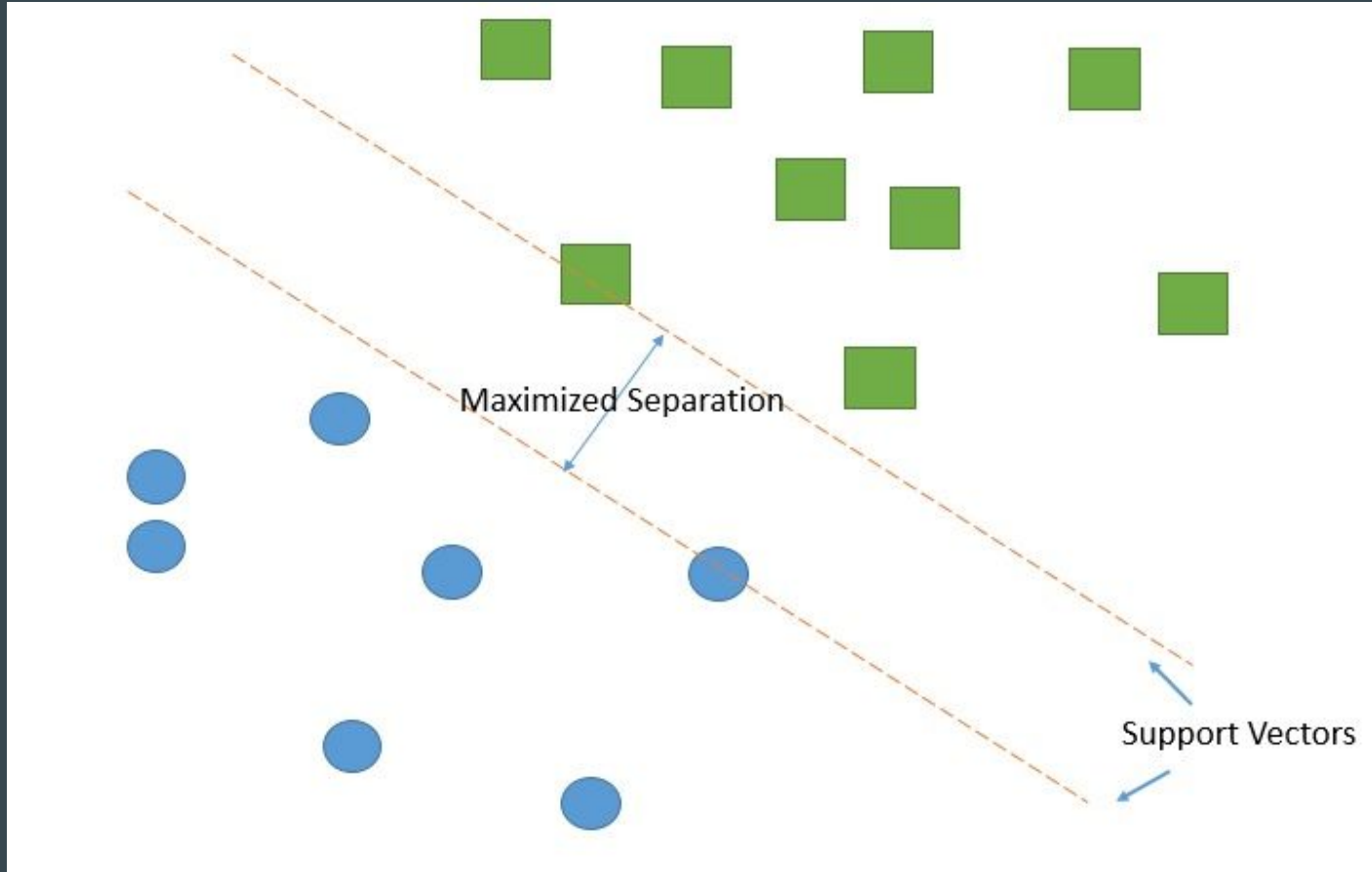
Random Forest



Each tree gets a vote on label, majority rules!

https://commons.wikimedia.org/wiki/File:Randomforests_ensemble.gif

Support Vectors

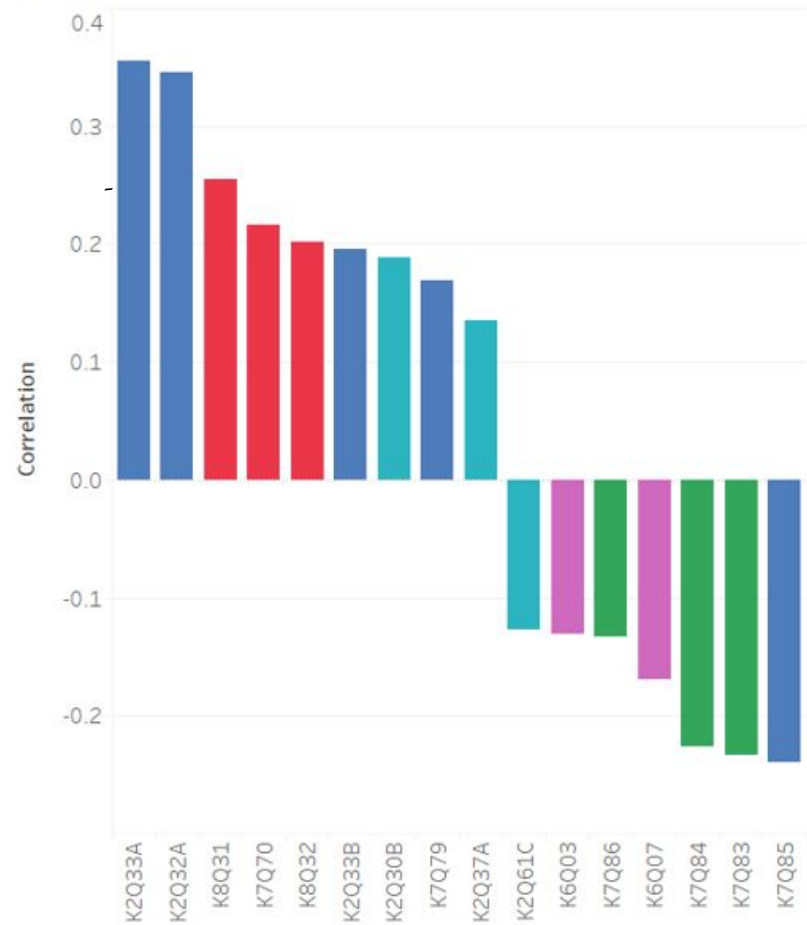


Model Evaluation

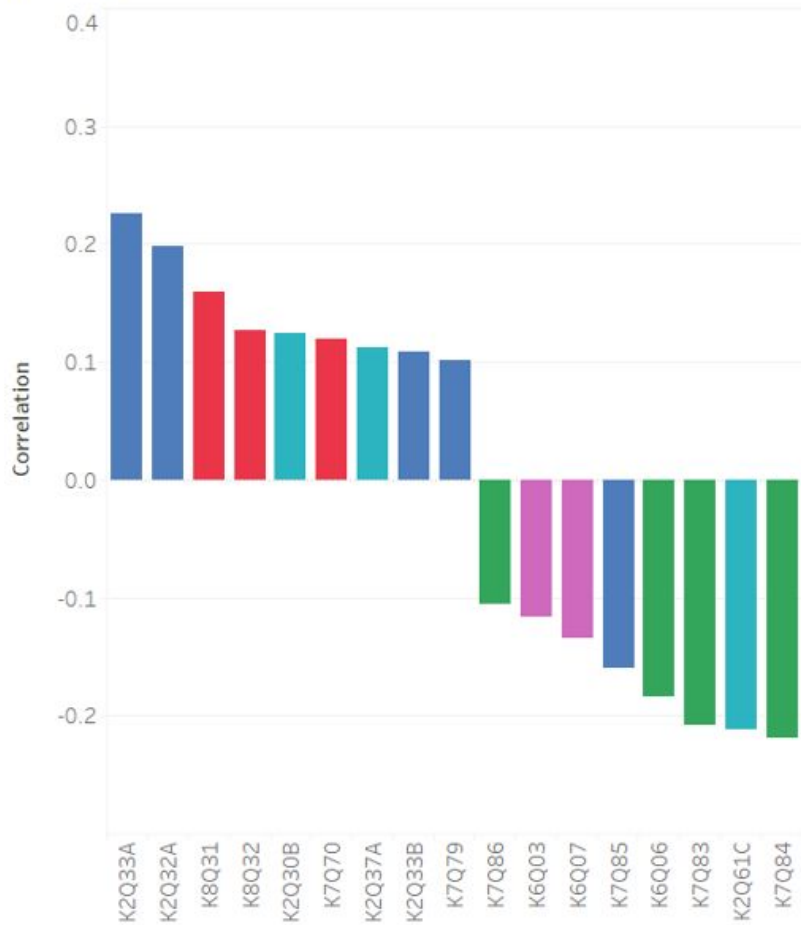
Female only model numbers:

- 41314 rows
- 56 Features
- Random Forest: 0.935 ROC
- 0.955 accuracy
- Examine subset of False Positives (3.39% females)

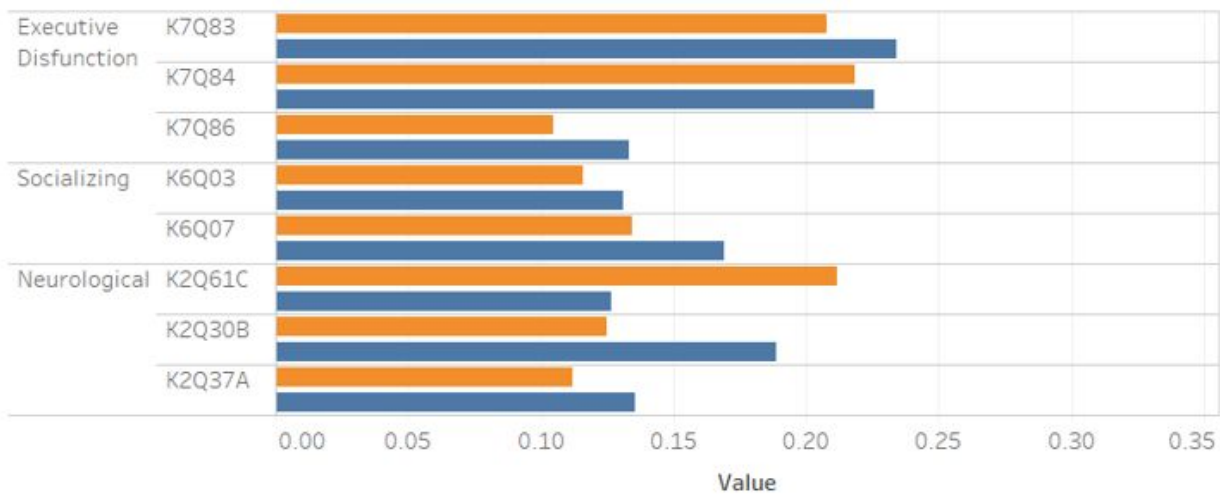
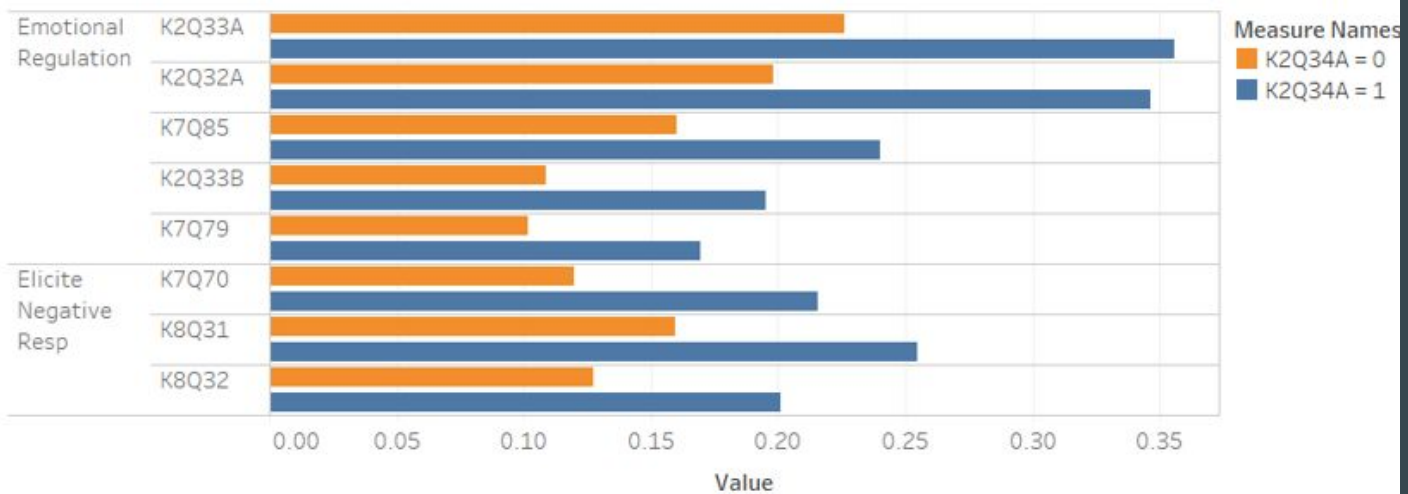
Correlation with ADHD Diagnosis:
K2Q34A = 1



Correlation with ADHD Diagnosis:
K2Q34A = 0



- F4
- Elicit Negative Resp
 - Emotional Regulation
 - Executive Dysfunction
 - Neurological
 - Socializing



Signs to Look For

ADHD COACHING ORLANDO

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