Supplementary Material

Using Explainable-AI to Find Geospatial Environmental and Sociodemographic Predictors of Suicide Attempts

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# Supplementary Figures and Tables

## Supplementary Figures

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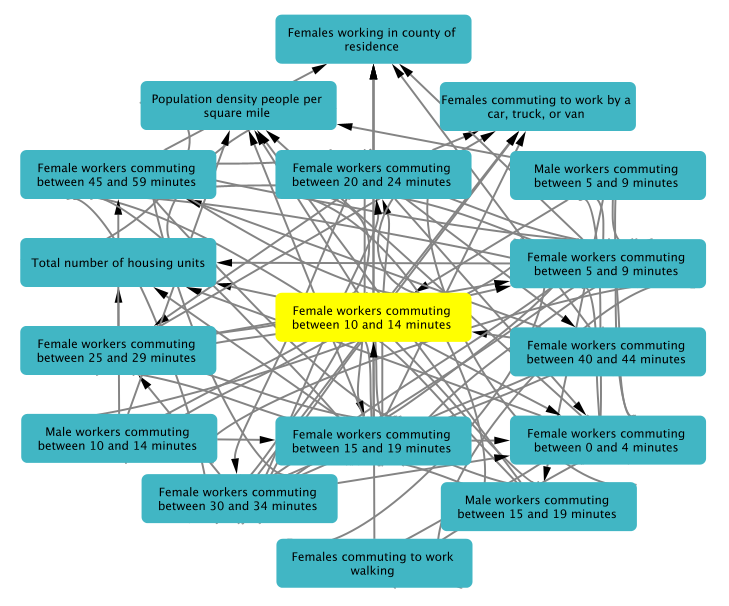
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**Supplementary Figure 1.** Normalized importance of features in a suicide attempt iRF model for patients equal to/above 60 years of age, using the top 20 socio-demographic and climatic features plus the number of alcohol and firearm vendors per 10,000 people. Yellow: zip code-level features predicting subjects with a history of suicide attempt, Teal: features predictive of controls (no history of suicide attempt).

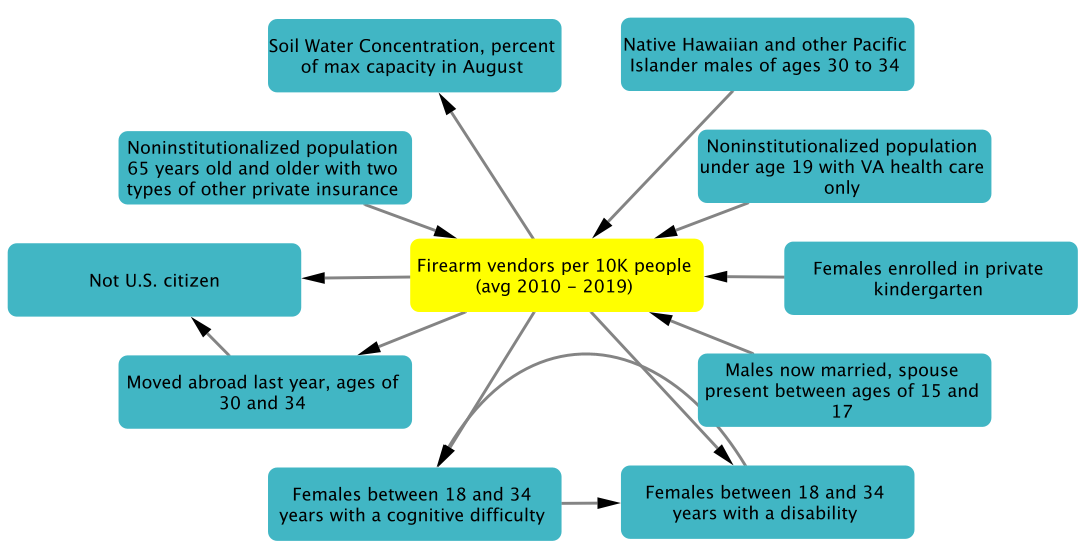
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**Supplementary Figure 2.** Normalized importance of features in a predictive suicide attempt iRF model for patients under 60 years of age, using the top 20 socio-demographic and climatic features plus the number of alcohol and firearm vendors per 10,000 people. Yellow: zip code-level features predicting subjects with a history of suicide attempt, Teal: features predictive of controls (no history of suicide attempt).



**Supplementary Figure 3**. iRF-LOOP subnetwork of the first neighbors for the proportion of females commuting 10 - 14 minutes to work.



**Supplementary Figure 4.** iRF-LOOP subnetwork of the first neighbors for the number of firearm vendors per 10,000 residents.

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