

# Testing the Waters:

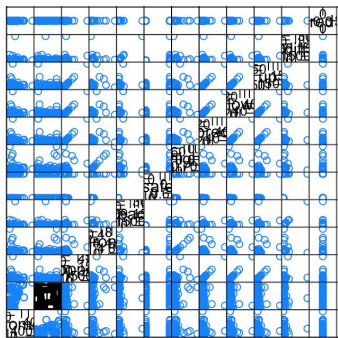
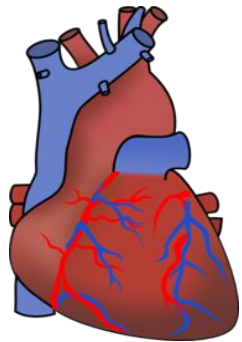
Exploring alternative predictors for lead

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Hack2.O, 2017

# Exploration

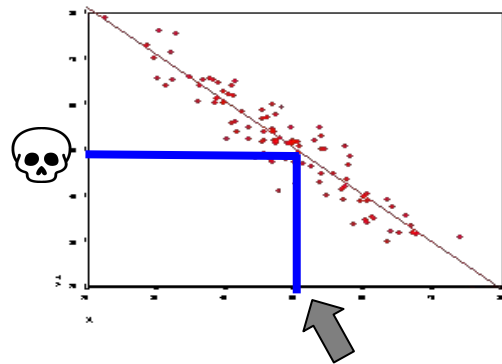
App can be accessed at <https://r.amherst.edu/apps/ajavaid17/Hackh2o/>

# Implementation Example: BP predicting CAD

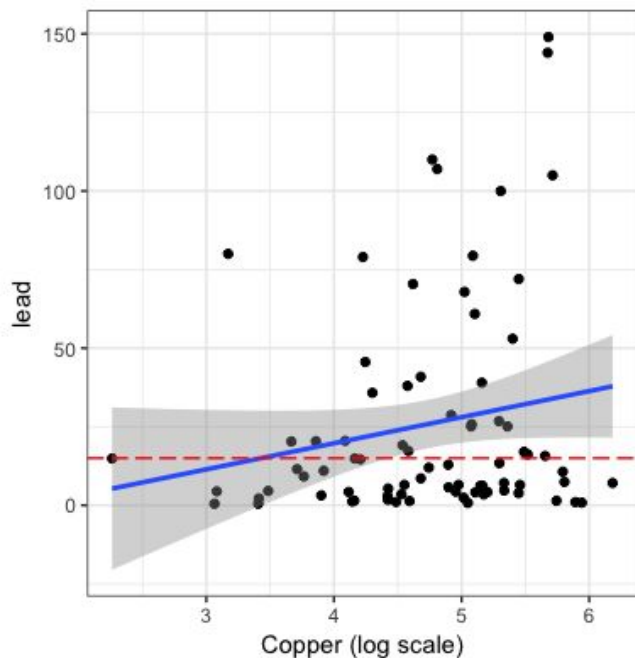


Scatter Plot Matrix

Blood  
Pressure!



# Our Case: Copper as a Predictor of Lead Levels



	Estimate	Std. Error	t value	Pr(> t )
(Intercept)	-27.8408	21.7248	-1.28	0.2037
log(copper)	11.5080	4.4302	2.60	0.0112

$R^2 = 0.078$  ← Really low 😞

# Conclusion

- While Copper is significantly correlated with Lead levels, our data does not support it for use as an accurate predictor.
- Potential next steps:
  - More Data! Still may not work, but always nice
  - Try, try and try again for pH rather than copper.  
Easier to test, greater consistency, more sustainable

