1) Have any data been collected for this study already?
No, no data have been collected for this study yet.

2) What’s the main question being asked or hypothesis being tested in this study?
Based on the prior literature on the association between blood pressure and physical pain and our previous work, higher resting blood pressure will be associated with lower sensitivity to an experience of social pain.

3) Describe the key dependent variable(s) specifying how they will be measured.
Resting blood pressure (an average of 4 readings over approximately 30 minutes) and self-reported feelings in response to an experience of social pain. In addition, health and psychosocial covariates that may relate to blood pressure will be collected (BMI, negative affect, hostility, perceived stress).

4) How many and which conditions will participants be assigned to?
This is a cross-sectional study.

5) Specify exactly which analyses you will conduct to examine the main question/hypothesis.
Linear regression analyses will be run with blood pressure entered as the independent variable and self-reported responses to social rejection. Hierarchical linear regressions will also test whether the association between resting blood pressure and sensitivity to social pain remain after controlling for other factors that may relate to blood pressure.

6) Any secondary analyses?
Sex will be evaluated as a moderator as there are known sex differences in resting blood pressure.

7) How many observations will be collected or what will determine sample size? No need to justify decision, but be precise about exactly how the number will be determined.
Based on a power analysis with an alpha of .01, a power of .80, and a medium effect size (between .3 and .5), we determined that we need a sample size of 200 subjects. We will run up to 250 participants in order to obtain complete data on at least 200 (to guard against technical difficulties or against any participants who do not follow pre-study instructions related to the resting blood pressure protocol).

8) Anything else you would like to pre-register? (e.g., data exclusions, variables collected for exploratory purposes, unusual analyses planned?)
In an attempt to replicate our previous work, we will also collect trait-level measures of sensitivity to social pain (mehrabian sensitivity to rejection), and as an exploratory aim that is unrelated to the current study, self-reports of receiving and giving social support to examine whether reports of giving social support are related to resting blood pressure. Outliers who are greater than 3 standard deviations from the mean or who display physiologically implausible cardiovascular measures may be excluded from the sample.