

# Unit 11

## Blood Pressure vs. Heart Rate Lab



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# Blood Pressure vs. Heart Rate Lab

**Question:** How is blood pressure affected by heart rate?

**Hypothesis:**

**Procedure:** Test each person's blood pressure and heart rate before and after exercise.

**Observations:** Collect blood pressure and heart rate data and record within a data table.

**Analysis:** Graph of the systolic blood pressure vs. heart rate values.

**Conclusion:** Support or reject your hypothesis with observational evidence.

# Blood Pressure vs. Heart Rate Lab

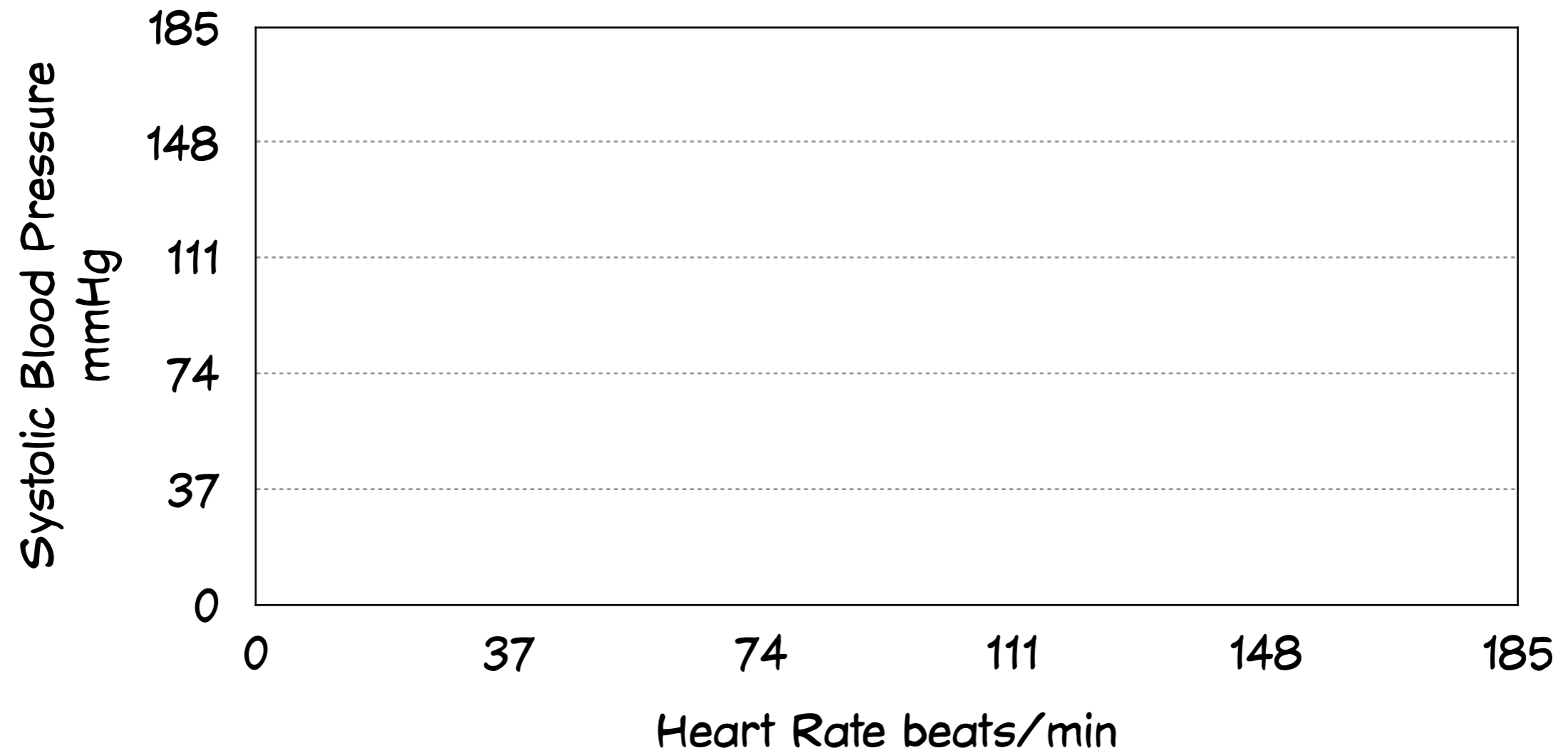
Personal Data			
At Rest - Average Systolic BP	At Rest - Average HR	Activity - Average Systolic BP	Activity - Average HR

# Blood Pressure vs. Heart Rate Lab

<i>Class Data</i>				
	<i>At Rest - BP</i>	<i>At Rest - HR</i>	<i>Activity - BP</i>	<i>Activity - HR</i>
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				

# Blood Pressure vs. Heart Rate Lab

## Systolic Blood Pressure vs. Heart Rate

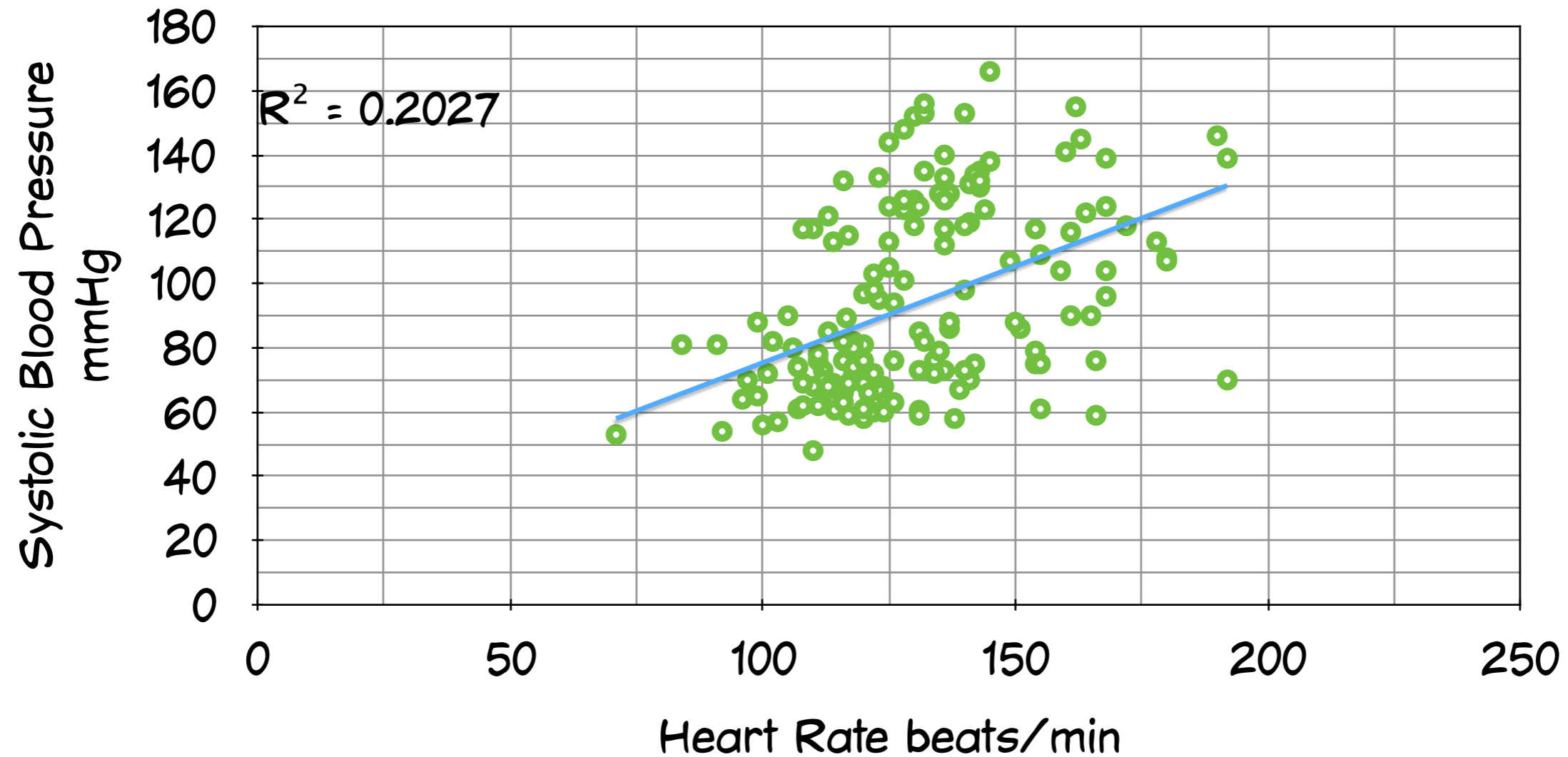


# Blood Pressure vs. Heart Rate Lab

R = 0.45

All Class Graph

## Systolic Blood Pressure vs. Heart Rate

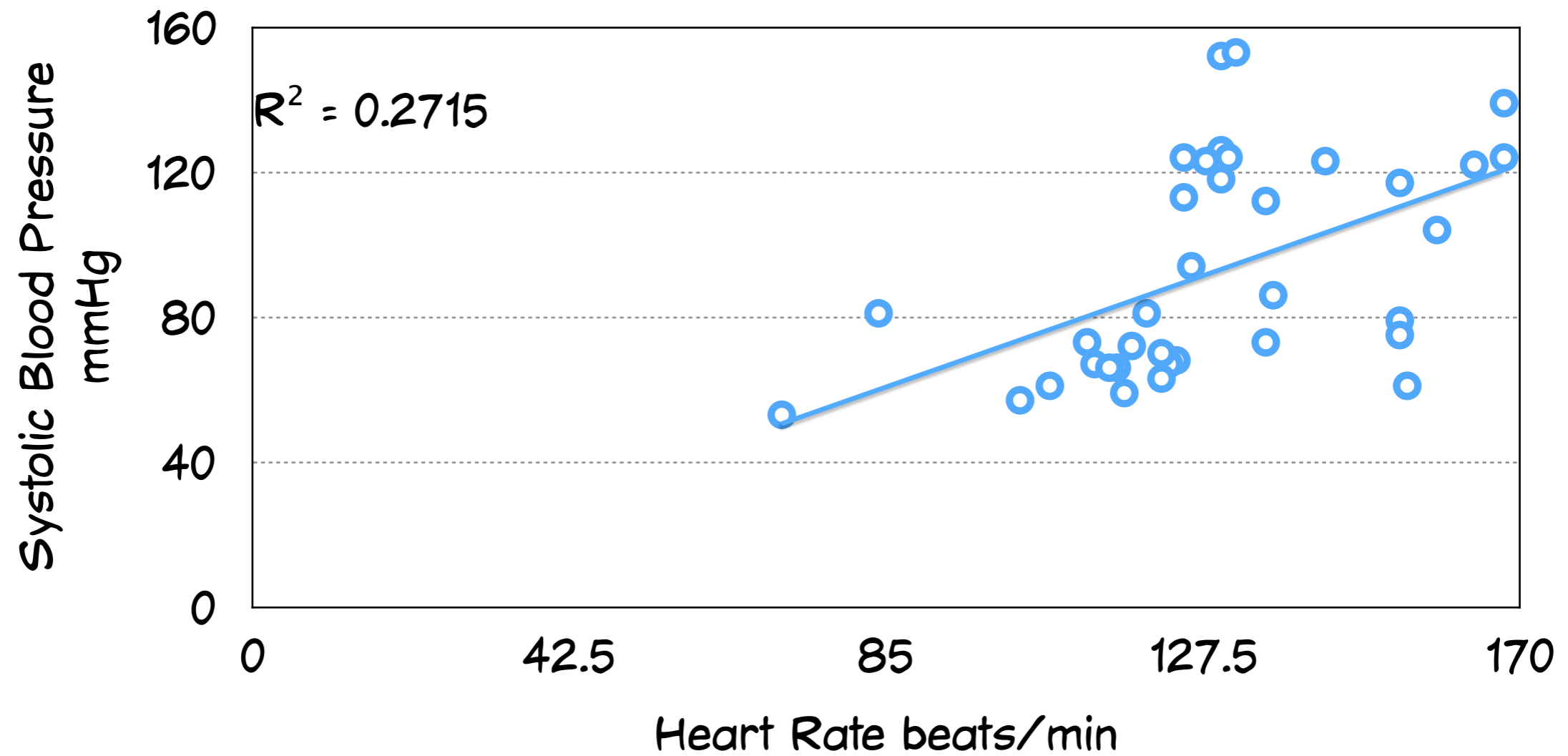


# Blood Pressure vs. Heart Rate Lab

Period 2

R = 0.52

## Systolic Blood Pressure vs. Heart Rate

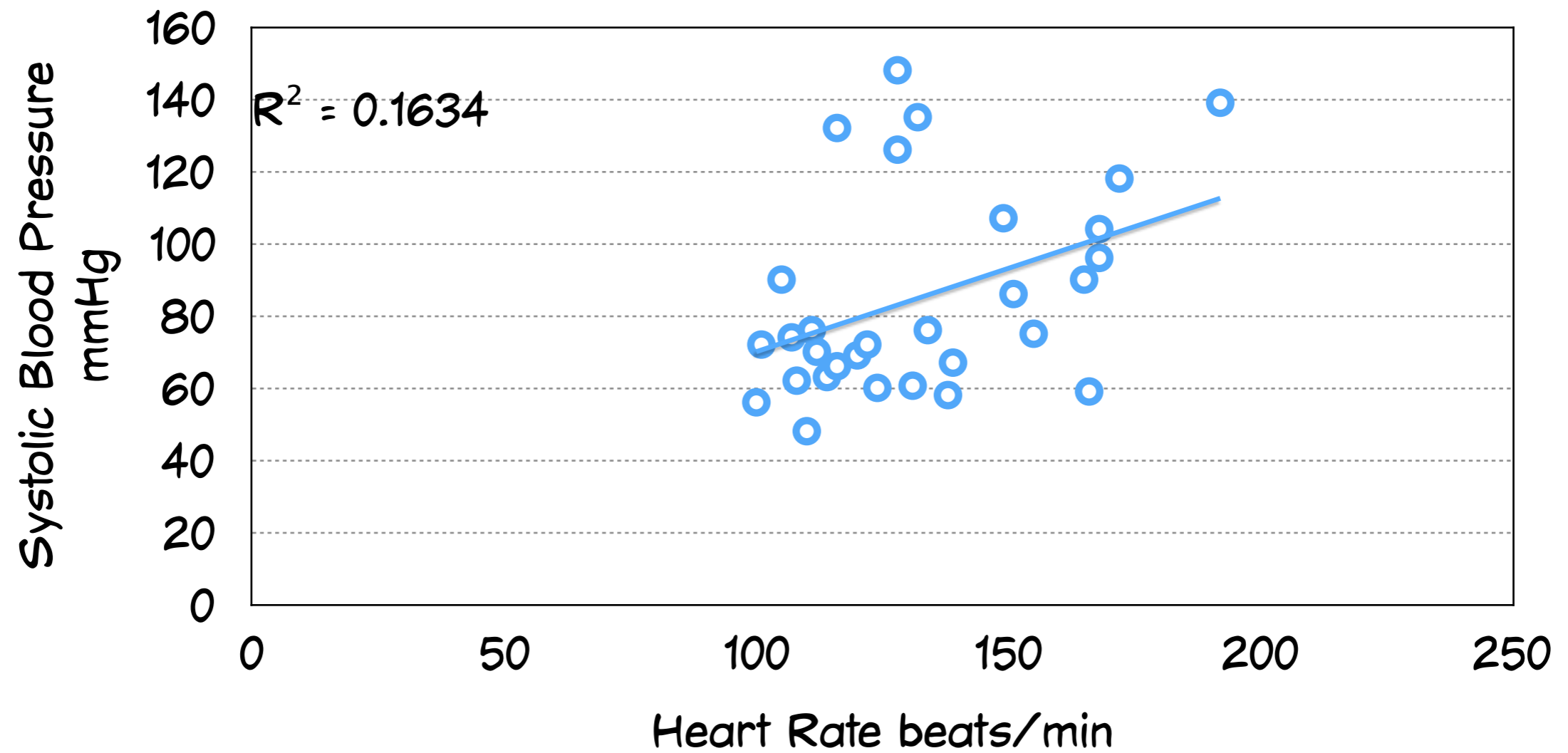


# Blood Pressure vs. Heart Rate Lab

Period 3

R = 0.40

## Systolic Blood Pressure vs. Heart Rate



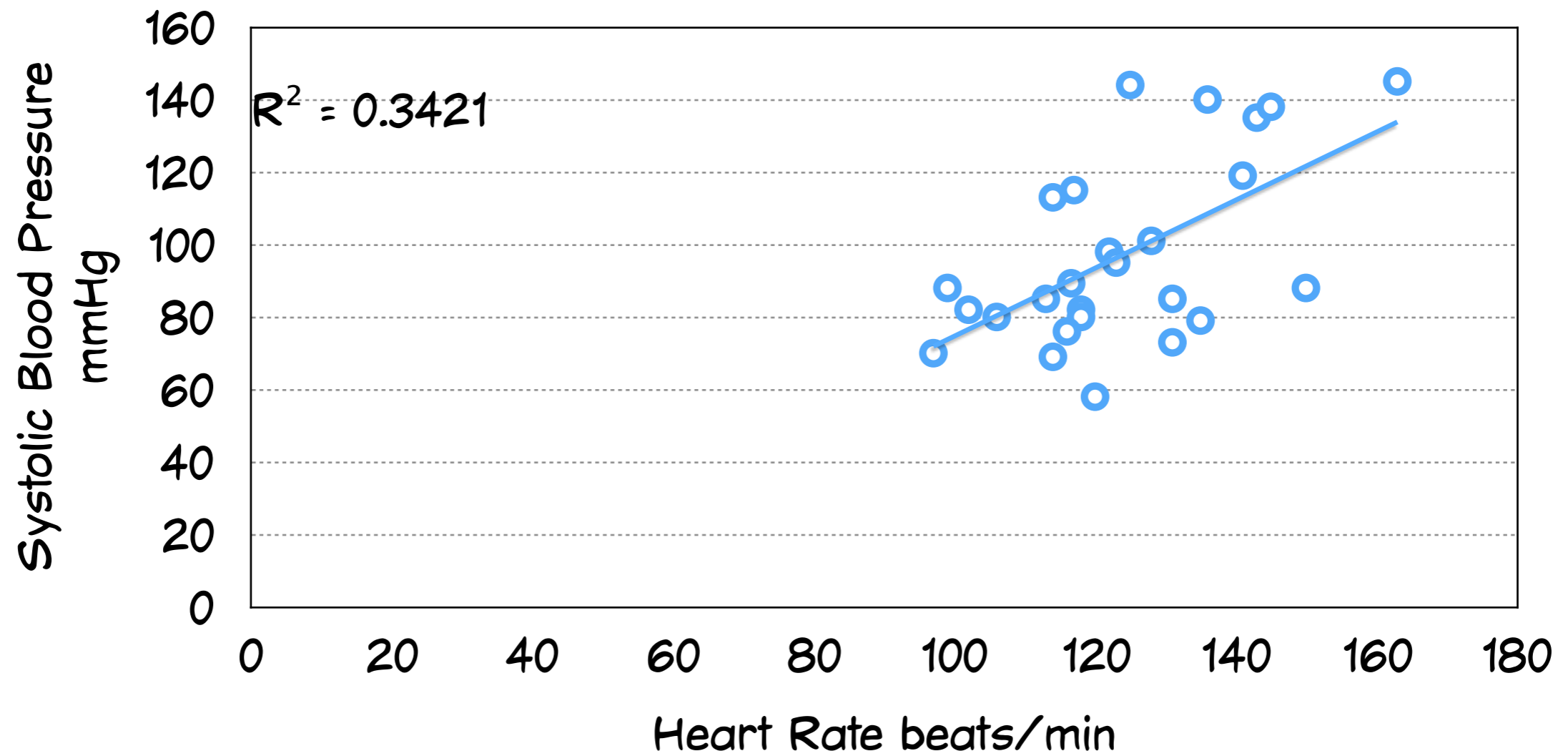


# Blood Pressure vs. Heart Rate Lab

Period 4

R = 0.58

## Systolic Blood Pressure vs. Heart Rate

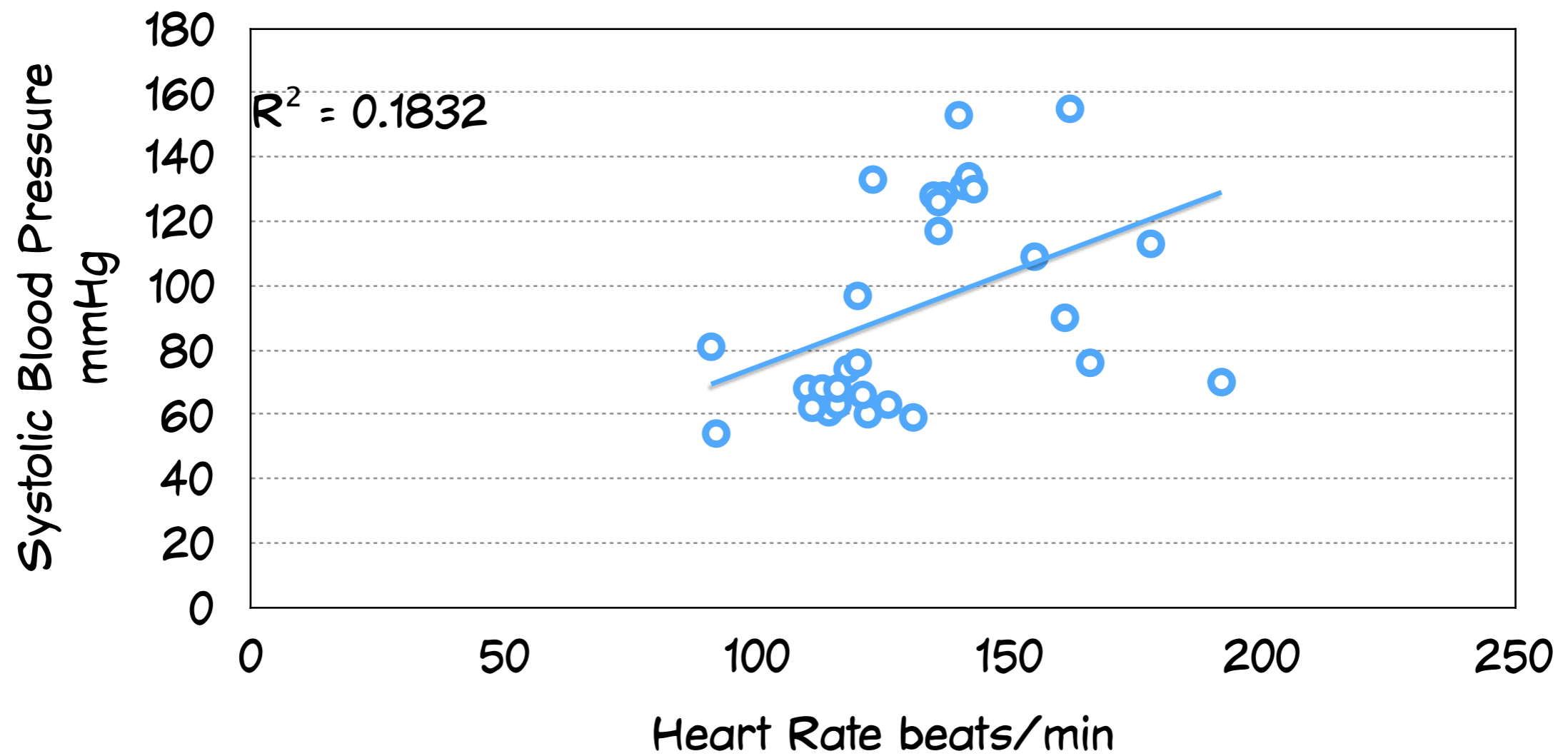


# Blood Pressure vs. Heart Rate Lab

Period 5

R = 0.43

## Systolic Blood Pressure vs. Heart Rate

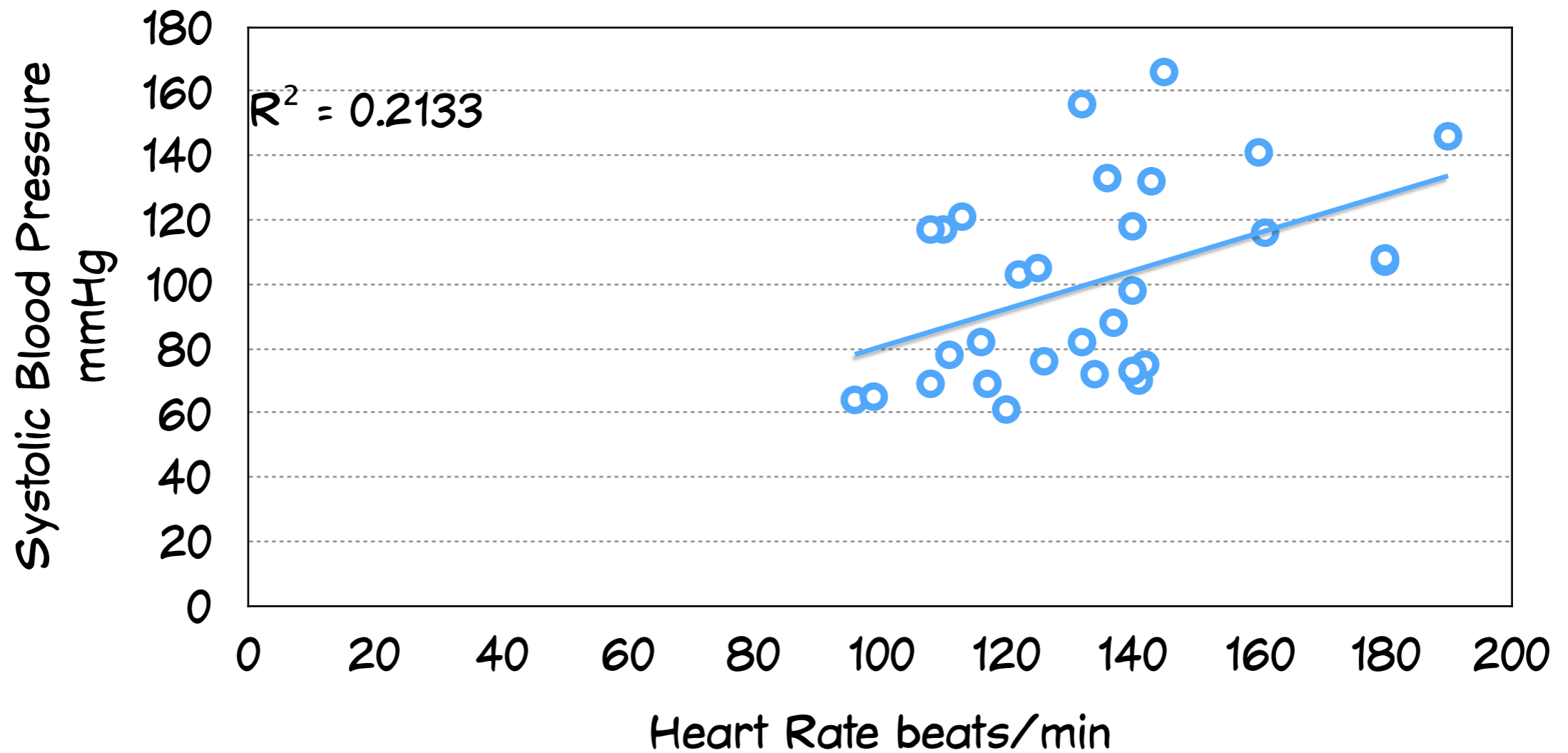


# Blood Pressure vs. Heart Rate Lab

Period 6

R = 0.46

## Systolic Blood Pressure vs. Heart Rate



END



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