

**Blood Pressure Lab Report Grading Updated 10/16 for Fall 2020**

**Total points = 35**

- In general, ½ pt off for every spelling error and major grammatical error.
- ½ pt off for not labelling the sections as Abstract, Introduction, Methods, Results, Discussion (or Conclusion is fine), and Literature Cited.

**Title = 1pt**
- ½ pt for actual title of paper (that it’s there)
- ½ pt for their name and “Department of Biology, Francis Marion University, Florence SC” (as per the lab report guidelines)

**Abstract = 2 pts**
1 pt for summarizing what they did (examined changes in heart rate and blood pressure in supine and standing positions), 1 pt for summarizing their findings (found that HR & BP increased with standing).

**Intro = 8 pts**
5 pts - MUST have background on negative feedback of how blood pressure regulated. [2.5 pts for What happens when BP is too low (sensed by baroreceptors, medulla stimulates an increase in HR and artery vasoconstriction, which increases BP) and 2.5 pts for what happens when BP is too high (sensed by baroreceptors, medulla stimulates a decrease in heart rate and artery vasodilation, which decreases BP).]
1 pts for including purpose of experiment
1 pts for including hypothesis of experiment
1 pts for including a reference for the background (must cite correctly as numerical superscript) As a bare minimum, cite from the Fox textbook as a ref.)

**Methods = 8 pts**
1 pts for including the total number of people in the experiment.
5 pts total for including the experimental design: Measured heart rate, as beats per minute (bpm), using either the radial or carotid pulse (1 pt), and systolic and diastolic blood pressure (measured in mmHg) using a manual blood pressure cuff and a stethoscope (1 pts). Subjects lay in the supine posture for 5 min, then measurements made (1 pt), stayed supine 5 more min (1 pt), then stood and re-measured (1 pt).
1 pts for stating that data was entered into and summarized using Excel.
1 pts for stating that data was analyzed using t-tests.

**Results = 8 pts**
2 pts for reporting the average supine and standing heart rate.
2 pts for reporting average supine and standing systolic blood pressure
2 pts for reporting average supine and standing diastolic blood pressure
1.5 pts for reporting P-value for HR t-test, SBP t-test, and DBP t-test (1 pt per P-value)
1 pts for stating that HR increased, and SBP & DBP increased with standing
0.5 pts for including data sheet (this sheet can be embedded within the Results OR simply stapled at back of report)

**Discussion = 6 pts**
4 pts for explaining WHY heart rate and blood pressure increased (it increased because upon standing the medulla stimulated increase in order to counteract the force of gravity to keep from passing out).
2 pts for giving a possible source of experimental error.

**Lit Cite =1 pts**
For including full citation of the course textbook, You can have supplemental sources, but if they are online you must cite the http address. Sources must be listed in numerical order in which they were found in the introduction.