Balance and agility are required in competitive sport and well trained athletes are exceedingly skilled at both. A loss of balance or lack of agility has the potential to hinder performance. 

**PURPOSE:** To examine the acute effects of two different exercise protocols (plyometrics vs. stationary cycling) on balance and agility in a college-aged sample. 

**METHODS:** Eleven undergraduate students participated in this study (7 males, 4 females; age = 21.36±0.67 years, height = 171.17±7.98 cm, mass = 72.26±7.09 kg, BMI = 24.72±1.80 kg/m², and body fat = 17.24±8.97%). Each subject completed an orientation session and two exercise protocol testing days: (1) 8-min of stationary cycling (CYC) and (2) plyometric (PLY) exercises. The protocols were counterbalanced and completed at least 48 hours apart. On testing days, all subjects completed a 5-min warm-up and cool-down on a cycle ergometer and balance and agility were measured before and after the exercise protocol. Agility was assessed using the T-test and balance was measured statically and dynamically using the standing one leg balance and Y-Balance tests, respectively. The data were analyzed using descriptive statistics and a one-way ANOVA with repeated measures. 

**RESULTS:** No statistically significant differences ($p > .05$) were yielded between exercise conditions. However, there was a statistically significant improvement on the T-test (Pre: CYC = 10.82±0.94 s, PLY = 11.11±1.27 s; Post: CYC = 10.49±0.94 s, PLY = 10.97±1.29 s) and left leg Y-balance (Pre: CYC = 257.03±26.76 cm, PLY = 251.75±26.17 cm; Post: CYC = 264.01±23.23 cm, PLY = 259.02±19.23 cm) after the exercise protocol, regardless of the type of exercise. 

**CONCLUSION:** Overall, exercise positively influenced agility performance (2% improvement) and dynamic balance (2.8% improvement), regardless of the mode.