## ACSM Risk Classification and Risk Factor Prevalence Rates Among College Students Samantha M. Orkin, Christie E. Erickson, William S. Dubiel, Christopher M. Bopp. Pennsylvania State University, University Park, PA

The ACSM provides guidelines for pre-screening subjects prior to exercise participation based on chronic disease, signs and symptoms of cardiovascular disease and risk factors. PURPOSE: To determine risk classification and prevalence of risk factors in a cohort of college aged males and females (average age 22.1 years). METHODS: Students in Kinesiology Physical Activity Program (KPAP) activity classes were screened with self-reported medical history evaluated with Par-Q+ and Eparmedx screening tools prior to their course required fitness assessment. RESULTS: Risk classification in our male cohort (n=1,689) showed 40.9% classified as low-risk, 46.2% were medium-risk and 12.8% were high-risk. Among moderate risk males (n=780) the most commonly found risk factors were obesity, smoking, and sedentariness. Among high-risk males (n=217) 131 subjects (60.4%) of subjects had known disease. Most common risk factors in this group were smoking and sedentariness. Risk classification in our female subjects (n=1384) showed 42.4% were classified as low risk, 39.7% were moderate-risk and 17.9% were high-risk. Among moderate-risk females (n=549), the most prevalent risk factors were: smoking, obesity, and sedentariness. In the high-risk female population (n=247) 149 subjects had known disease. Obesity and sedentary lifestyle were the most common risk factors. A majority, 52%, of our subjects were considered sedentary prior to the start of their KPAP class. CONCLUSION: In our cohort of young men and women, a significant portion of our sample was either high-risk (15.1%) or moderate-risk (43.2%). These findings emphasize the importance of screening students prior to their exercise test. Our findings also show that the risk factors present in this sample are largely reversible; with lifestyle modification it should be possible to alter risk profiles among college aged males and females.