Coffee Consumption, Perceptions, and Patterns

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Background

Coffee consumption is widespread and has become an important part of culture and socializing (Argan, Akyildiz, Ozdemir, Bas, Akkus, & Kaya, 2015). The act of drinking coffee has persisted throughout history and is still one of the most consumed beverages in the world, while caffeine (found in coffee, tea, and soda) is one of the most consumed pharmacologically active substances (Nawrot, Jordan, Eastwood, Rotstein, Hugenholtz, & Feeley, 2003). Statistics show that "54% of Americans over the age of 18 drink coffee every day" (Coffee by the Numbers, 2010). Prior research shows that there are multiple studies on coffee and caffeine that heavily contradict each other. A positive effect of coffee is that it increases alertness (Bae, Park, Im, & Song, 2014). One study found that if a person drinks high amounts of coffee they can offset the effect of caffeine and have some health benefits such as good blood pressure (Chei, Loh, Soh, Yuan, & Koh, 2017; Higdon & Frei, 2006). An epidemiological study found that coffee consumption also leads to preventing chronic diseases that include type 2 diabetes mellitus, Parkinson's disease, and liver disease (Higdon & Frei, 2006). It was found that coffee activates the sympathetic nervous system, and that it can have anti-stress properties (Papakonstantinou, Kechribari, Sotirakoglou, Tarantilis, Gourdomichali, Michas, ... & Sotirakoglou, 2016). In addition, an analysis determined that if a person consumes less than 400 milligrams of caffeine a day there are no adverse effects (Nawrot, Jordan, Eastwood, Rotstein, Hugenholtz, & Feeley, 2003).

Conversely, some negative effects of coffee link lower levels of stress and more sleep disruptions with coffee consumption (Keenan, Tiplady, Priestley, & Rogers, 2014; Papakonstantinou et al., 2016). Coffee has also been found to negatively impact the body with cardiovascular risk factors (such as blood pressure and plasma homocysteine), irregular heartbeats, and headaches (Bae, Park, Im, & Song, 2014; Chei, Loh, Soh, Yuan, & Koh, 2017; Higdon & Frei, 2006). The substance of caffeine in coffee was found to increase anxiety (Vinader-Caerols, Monleón, Carrasco, & Parra, 2012). Another study found that caffeine increases the risk of death and that coffee decreases the risk of death, based on telomeres (Tucker, 2017). There are also cholesterol-raising effects from the hemicals cafestol and kahweol found in unfiltered coffee (Higdon & Frei, 2006).

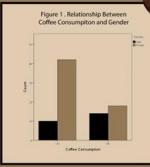
Method

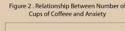
There were statistically significant results in the factors associated with coffee consumption and women being more likely to drink coffee. Participants in the age group 18-24 were more likely to drink one cup of coffee. Similarly, there was a relationship between having low anxiety and drinking one cup of coffee as well. It was unexpected that there was not a correlation between the amount of coffee consumed and gender or the role in the university (students and staff). These results from the study give an insight into how students on a college campus consume coffee and perceive to be impacted by it

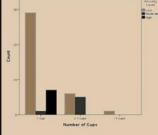
Coffee is a substance that people consume all over the world and on a daily basis, so it is important to do research on such a widely used substance and the chemicals it contains. Based on the research, a majority of the studies done on coffee are contradicting so more studies need to be conducted to draw definitive results.

This study is useful for future studies or meta-analyses to consider smaller populations on college campuses. Research completed on coffee in specific populations would influence interventions to disseminate information and allow people to make informed decisions.

Determine if there are patterns between demographics, coffee consumption, and perceptions to understand how students, staff, and faculty at Dominican University of California perceive coffee and any factors that could contribute to their views.







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Results

Demographics. There were 84 participants in this study, who consented and filled out the surveys. The sample contained more females (71.4%), most were aged from 18-24 years old (95.2%), and were primarily white (34.5%). Additionally, a large group of participants took the survey online (75.3%). There were many participants who did drink coffee (61.9%), and from this group they tended to drink one cup of coffee (43.5%) and did not drink it decaffeinated (51.8%).

Factors Associated with Coffee Consumption. The majority of the participants drink coffee (61.9%). There was a significant correlation between the participants who drank coffee and their gender (p=0.024), males were more likely to say that they don't drink coffee (58.3%) while females were more likely to say that they did drink coffee (70%), shown on Figure 1. It was discovered that university role, employment status, and ethnicity had no correlation to which participants

Factors Associated with the Number of Cups Consumed. The amount of coffee a person consumed in one day depended on the number of people who drank coffee and answered all the questions (n=49). A significant correlation was found between the number of cups of coffee the participant consumes and age group (p<0.001), respondents aged 18-24 were more likely to consume one cup of coffee (97.3%), shown on Figure 2. There was a significant correlation between the number of cups coffee drinkers consume and how anxious they feel after consumption (p=0.003), people who drank one cup of coffee were likely to feel lower anxiety afterwards (73.4%) than people who drank more than one cup. There is no correlation between the amount of coffee people drink and their university role, gender, alertness, trouble sleeping at night, craving for caffeine, or craving for coffee shown on Table 1.

Conlcusion

There were statistically significant results in the factors associated with coffee consumption and women being more likely to drink coffee. Participants in the age group 18-24 were more likely to drink one cup of coffee. Similarly, there was a relationship between having low anxiety and drinking one cup of coffee as well. It was unexpected that there was not a correlation between the amount of coffee consumed and gender or the role in the university (students and staff). These results from the study give an insight into how students on a college campus consume coffee and perceive to be impacted by it

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