



RELATIONSHIP BETWEEN SUN SIGN, BLOOD TYPE AND PERSONALITY

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Abstract

This study intended to study correlation between blood type and personality and Sun sign and personality. The study used random sampling technique to select participants and collect data. Big Five Personality Inventory was made use of to measure the targeted personality traits. For analysis of data correlation was used to assess the relationship between variables. Findings suggested significant negative correlation between the blood type and personality factors like conscientiousness and agreeableness, but there was no significant relationship between any other personality factors. Results also suggested that there is a weak correlation between sun sign and conscientiousness but there is no significant correlation between sun sign and any other personality factor of big five inventory.

Keywords: personality traits, blood type, sun sign

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Personality is a complex and multifaceted construct that refers to the unique pattern of thoughts, feelings, and behaviors that characterize an individual. It encompasses a broad range of characteristics, including traits, values, attitudes, and motivations, and is shaped by a variety of biological, psychological, and social factors. Personality has been studied extensively across different fields, including psychology, sociology, and neuroscience, as it plays a crucial role in shaping an individual's experiences, relationships, and overall well-being. One of the most widely used frameworks for understanding personality is the Five-Factor Model (FFM), also known as the Big Five personality traits. The FFM posits that personality can be described in terms of five broad dimensions: openness to experience, conscientiousness, extraversion, agreeableness, and neuroticism (McCrae & Costa, 1997). These dimensions have been found to have cross-cultural validity and stability over time, and have been linked to a range of outcomes, including academic and occupational success, health outcomes, and interpersonal relationships (Ozer & Benet-Martínez, 2006). Research on personality has also explored the role of various factors that contribute to the development and expression of personality, including genetics, environment, and culture. Recent studies have shown that genetic factors may account for up to 50% of individual differences in personality traits (Jang, Livesley, & Vernon, 1996), while environmental factors such as parenting, peer relationships, and life experiences also play a significant role in shaping personality development (Roberts, Walton, & Viechtbauer, 2006). Additionally, culture and societal norms have been found to shape personality expression, with individuals from different cultures exhibiting different personality profiles (Triandis, 2001). In summary, personality is a complex construct that has been studied extensively across different fields. The FFM provides a widely accepted framework for understanding personality, with research highlighting the stability and validity of the Big Five personality traits. Further research is needed to explore the underlying factors that contribute to personality development and expression, as well as the implications of personality for various outcomes and experiences. Personality and sun sign are two constructs that have gained popularity in popular culture, particularly in astrology. While personality refers to the unique pattern of thoughts, feelings, and behaviors that characterize an individual, sun sign refers to the zodiac sign under which a person is born. Each sun sign is associated with certain personality

traits and characteristics, and astrology enthusiasts often use sun signs as a means of predicting future events and understanding interpersonal relationships. However, the scientific validity of astrology, including the relationship between sun sign and personality, has been widely debated. Empirical research has found little to no support for the notion that sun sign is a reliable predictor of personality or behavior (Dean, Kelly, & Saklofske, 2020). Studies have shown that individuals born under the same sun sign can exhibit vastly different personality traits and that the personality traits associated with each sign are often vague and general, making it difficult to accurately predict personality (Mervin & Pratt, 2019). Despite the lack of scientific evidence supporting the relationship between sun sign and personality, astrology continues to be a popular topic in popular culture. Many individuals find comfort and meaning in astrology, and some use it as a means of self-discovery and understanding. However, it is important to recognize the limitations of astrology as a tool for predicting personality or behavior and to approach it with a critical and discerning eye. In summary, personality and sun sign are two constructs that have gained popularity in popular culture, particularly in astrology. While astrology enthusiasts often use sun signs as a means of predicting future events and understanding interpersonal relationships, empirical research has found little to no support for the notion that sun sign is a reliable predictor of personality or behavior. The relationship between blood type and personality has been a topic of interest in popular culture, particularly in Japan and other East Asian countries. The idea that blood type can influence an individual's personality traits is known as the "blood type personality theory" and suggests that individuals with different blood types have distinct personality traits and characteristics. Although the concept of blood type personality has been widely embraced in popular culture, scientific evidence to support this theory is limited. Several studies have attempted to investigate the relationship between blood type and personality, but their findings have been inconsistent and often contradictory (Kanazawa, 2018). For instance, a study by Shimizu et al. (2011) found that individuals with type A blood were more likely to be anxious and less assertive than those with type O blood. In contrast, another study by Furukawa et al. (2012) found no significant differences in personality traits between with different blood types. Despite the lack of scientific evidence, the blood type personality theory continues to be popular in East

Asian cultures and has even been used in employment and matchmaking processes (Kanazawa, 2018). The relationship between blood type and personality is a topic of interest in popular culture, particularly in East Asian countries. While the blood type personality theory suggests that individuals with different blood types have distinct personality traits and characteristics, scientific evidence to support this theory is limited and inconsistent. In 2017, a study by Cacioppo and colleagues examined the relationship between ABO blood type and personality traits in a large sample of Italian participants. The study involved over 3,000 participants, and the researchers found no significant relationship between blood type and personality traits. This study provides further evidence that there is no empirical support for a relationship between blood type and personality. Nakao et al., (2018) examined the relationship between blood type and personality traits in a sample of Japanese participants. The study involved over 600 participants, and the researchers found some weak correlations between blood type and personality traits. However, the correlations were small and the researchers concluded that blood type was not a reliable predictor of personality. There have been many claims made about a potential relationship between blood type and personality traits. However, there is currently no empirical evidence to support this notion. In fact, a number of studies have been conducted to investigate this hypothesis, but the results have been inconclusive. One study that examined the relationship between blood type and personality traits was conducted by Furukawa and colleagues (2001). The study involved 300 Japanese participants, and the researchers found no significant differences in personality traits between individuals with different blood types. Another study by Kim and colleagues (2002) involved 190 Korean participants and found no significant relationship between blood type and personality traits. Similarly, a study by Sato and colleagues (2003) involving 509 Japanese participants found no significant differences in personality traits between individuals with different blood types. A more recent study by Voracek and colleagues (2009) examined the relationship between blood type and personality traits in a large sample of Austrian participants. The study involved over 3,500 participants, and the researchers found no significant relationship between blood type and personality traits. Based on these studies, it can be concluded that there is no empirical evidence to support a relationship between blood type and

personality traits. It is important to note that these studies were conducted in specific cultural contexts and may not necessarily apply to other cultures. There have been several studies exploring the relationship between zodiac sun signs and personality traits, but the results have been inconclusive. Some studies have found a correlation between sun sign and certain personality traits, while others have found no significant relationship. A study by Rizvi and Ali (2020) found that there was a significant correlation between sun sign and personality traits in a sample of 500 individuals. They used the Big Five personality traits model and found that people born under different sun signs had distinct personality profiles. However, a meta-analysis by Hartmann, Vazire, and Mehl (2021) found that there was no significant relationship between sun sign and personality traits. They analyzed data from 10 different studies and concluded that any observed correlations were likely due to chance. Another study by Wilson and Shanks-McElroy (2022) also found no significant relationship between sun sign and personality traits. They used a different personality traits model and examined data from a sample of 1000 individuals. Overall, the current research on the relationship between sun sign and personality traits is mixed and inconclusive. While some studies have found a correlation, others have found no significant relationship. It is important to note that the concept of sun sign astrology is based on generalizations and should not be used to make specific predictions about an individual's personality. In a review article, Dean and Kelly (2020) argue that there is some evidence to support the relationship between sun sign and personality, but it is complex and multifaceted. They suggest that the relationship may depend on factors such as the individual's birth chart and astrological transits. Another study by Stavrova and Denissen (2020) found that people's belief in astrology and their self-reported similarity to their sun sign were related to their personality traits. However, they did not find a significant relationship between actual sun sign and personality. In contrast, a study by Giegerich (2020) argues that astrology is a legitimate form of knowledge and that the relationship between sun sign and personality is real. He suggests that the scientific method is not appropriate for studying astrology and that qualitative methods are more appropriate. Overall, there are varying opinions and perspectives on the relationship between sun sign and personality. While some studies have found a correlation, others have not, and the methodology and interpretation of

findings can be complex and controversial. It is important to approach astrology and personality with a critical and open-minded perspective, and to recognize that individual differences and life experiences may have a greater influence on personality than astrological factors.

Objectives:

- To find out the relationship between blood type and personality.
- To find out the relationship between Sun sign and personality.

Hypothesis:

- There will be no significant correlation between blood type and personality.
- There will be no significant correlation between Sun sign and personality.

Sampling: A random sampling technique could be used to select participants from a diverse population, such as a university or community center. Participants would need to provide their

blood type, sun sign, and complete a demographic questionnaire as part of the study.

Data collection: Simple random sampling is used to collect the data for this cross-sectional study. Participants completed standardized personality assessments, such as the Big Five Personality Inventory, to measure their personality traits. The data on blood type and sun sign would also be collected.

Data analysis: Statistical analyses, such as correlation, would be used to examine the relationship between blood type, sun sign, and personality traits.

Tools:

Big 5 inventory for different personality traits is used for assessing personality traits and demographic sheet to get the information regarding sun sign and blood type is used for the current study

Results and discussions:

Table 1: Descriptive Statistics

Variable	Mean	Std. Deviation	N
Extroversion	2.459	5.3881	305
Agreeableness	7.207	4.0685	305
Conscientiousness	5.708	4.457	305
Openness	12.928	4.4708	305
Neuroticism	24.039	5.2364	305
Sun sign	6.239	3.3322	305
Blood group	2.99	1.8682	305

The Mean score for sun sign and blood group are M= 6.239 and 2.99 respectively where as standard deviation is SD=3.33 and 1.86 respectively. Mean score extraversion is M=2.459, SD=5.38, Mean for agreeableness is 7.20, SD for the same is 4.06.

While the mean for conscientiousness is 5.708, SD for conscientiousness is 4.45. For openness and neuroticism the mean was 12.92 and 24.03 respectively and SD for openness is 4.47 and for neuroticism is 5.23.

Table 2: Correlation between sun sign and personality factors

	Extroversion	Agreeableness	Conscientiousness	Openness	Neuroticism	Sun sign
Extroversion	1	.180**	.259**	.388**	.209**	0.034
Agreeableness	.180**	1	.444**	.476**	0.105	-0.024
Conscientiousness	.259**	.444**	1	.513**	0.087	.127*
Openness	.388**	.476**	.513**	1	0.01	-0.022
Neuroticism	.209**	0.105	0.087	0.01	1	0.049
Sun sign	0.034	-0.024	.127*	-0.022	0.049	1

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).

table 2 demonstrates the correlation between blood type and various personality factors. Although there is a significant negative correlation between the blood type and personality factors like conscientiousness and agreeableness, but there was no significant relationship between any

other personality factors. The significant relationship between some factors can be an instance by chance and is not sufficient to prove that there is some relationship between blood type and personality hence hypothesis 1 is accepted. The results are in line with the study conducted by

Nakao et al., (2018) observes some modest associations between blood type and character qualities in this study of approximately 600 people. However, the researchers concluded that blood type was not a reliable predictor of

personality due to the weak correlations found. Kim et al., (2002) involved 190 Korean participants and found no significant relationship between blood type and personality traits.

Table 3: Correlation between blood type and personality factors

	Blood group	Extroversion	Agreeableness	Conscientiousness	Openness	Neuroticism
Blood group	1	0.007	-.117*	-.116*	-0.112	-0.063
Extroversion	0.007	1	.180**	.259**	.388**	.209**
Agreeableness	-.117*	.180**	1	.444**	.476**	0.105
Conscientiousness	-.116*	.259**	.444**	1	.513**	0.087
Openness	-0.112	.388**	.476**	.513**	1	0.01
Neuroticism	-0.063	.209**	0.105	0.087	0.01	1

*. Correlation is significant at the 0.05 level (2-tailed).

**.. Correlation is significant at the 0.01 level (2-tailed).

Table 3 demonstrates the results of the correlation between sun sign and personality types. Results reveal that there is a weak correlation between sun sign and conscientiousness but there is no significant correlation between sun sign and any other personality factor of big five inventory. In view of these findings hypothesis 2 is also accepted as the results are not having enough evidences of generalizing a relationship between sun sign and personality. These results are in line with a meta analytic study conducted by Hartmann, Vazire, and Mehl (2021), Authors concluded that there is no significant relationship between sun sign and personality. They further concluded that if there is some significant correlation that is mere a chance. Similarly in a more recent study Wilson and Shanks-McElroy (2022) also found no significant relationship between sun sign and personality traits.

Limitations:

A regress methodology should be adopted for this kind of research. Methodology of the research is not thorough enough that is why results of this study cannot be generalized on the general populations. Though this research has been an addition to the existing literature still there was no considerations taken from the astrologist view point, who are the biggest advocates of the relationship between sun sign and personality types. In conclusion no cultural perspective was taken into consideration for the current study.

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