COMPARISON OF PERSONALITY TRAITS ON HEALTH AND SOCIAL SCIENCES STUDY PROGRAMS IN OLD AGED GROUPS

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Abstract

Personality is most commonly divided into five big traits^{1,2,3,4} namely Agreeableness, Conscientiousness, Extraversion, Neuroticism, and Openness to Experience. Agreeableness refers to the tendency to get along well with others and is associated with altruism or modesty. Conscientiousness refers to the extent to which an individual is careful, reliable, and persevering. Extraversion refers to the tendency to experience positive emotions and to have a positive outlook on life. In general, extroverts are talkative, sociable, outgoing, enthusiastic, and energetic. Neuroticism refers to the tendency to experience negative emotional states including anxiety, depression, or anger. Openness to experience refers to the tendency to be open-minded, imaginative, and curious. This study was cross-sectionall research with big five inventory (BFI) questionnaire. We used bahasa to validate translation of the BFI. The Participant N=50 persons from health sciences and N=116 persons from social science. All participant were lecturers and professors with aged interval 41-90 years. This questionnaire has 5 scale with 5 Likert scale mark with disagree strongly and agree strongly answer. The result showed all participant were included for three domain personality traits dimensions, which are agreeableness with 35, openness with 52, and conscientiousness with 29. Taken all together we concluded all lecturer and professors had tendency of agreeableness, openness, and conscientiousness for their personality traits dimensions.

Keywords: big five-inventory (BFI), personality traits, aged

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INTRODUCTION

Individual personality describing individual differences in characteristic patterns of thinking, feeling, and behaving.⁵ Individual personality affects health and lifespan is supported by growing evidence of its influence on health-related factors^{6,7} including obesity⁸ and smoking^{9,10} —two major determinants of mortality.¹¹ morbidity Moreover, and traits affect personality physiological responses to stressful events, which can negatively impact health.⁷ Neuroticism, extraversion, agreeableness, openness, and conscientiousness to experience are broad dimensions of personality and are related to mortality. Studies on the association between different personality traits and survival in older people have had inconsistent findings. 12

Personality is a dynamic and organized system of characteristics, which uniquely influences individual's cognitions, motivations and behaviors in different situations.¹³ Personality is increasingly stable over time and reaches the highest level of stability in individuals' later life.¹⁴ Based on the personality trait theory, personality can be regarded as a collection of traits that are highly individualized and relatively stable throughout one's lifespan, which uniquely influence one's behaviors or responses to a situation.¹⁵

Personality is believed to influence the quality of life through the ways people react to stressful situations and cope with challenges. 16,17,18,19 Personality traits believed influence individuals' to interpretation of their environments and also affect individuals' behavioral choices about how to solve encountered problems.^{20,21} With different personality traits, people have different standards to evaluate the level of stress in each situation. One situation may be perceived as extremely stressful by some people, whereas other people may easily adapt to the same situation.²²

Most of the studies about the relations between personality traits and life satisfaction were based on the model of the Big Five. From the viewpoint of trait theory, the Five Factor Model (FFM) represents a classical structure of personality.²³ The Big Five personality traits

originated from lexical tradition²⁴ and include extraversion, agreeableness, openness to new conscientiousness, experiences, neuroticism.^{25, 26} Extraversion refers to the quantity and intensity of a person's social communication, and the degree of energy and happiness person feels during communication. Agreeableness reflects attitudes toward other people. Openness to new experiences explores whether a person has creativity and imagination, and is likely to try new things. Conscientiousness refers to selfregarding conflicts control or actions. Neuroticism reflects a person's emotional instability and inability to adapt to the environment.²⁵ The FFM has been confirmed in different cultures. 27, 28, 29

This study examined the comparison between personality and major study program in a cohort of cognitively healthy people aged 41-90 years. Specifically, we explored the extent to which neuroticism, extraversion, agreeableness, openness, and conscientiousness were independently associated with study program groups with different combinations of personality traits.

METHOD

This study was cross sectional research with big five inventory (BFI) questioner. We used bahasa to validate translation of the BFI. The Participant N= 50 persons from health sciences and N= 116 persons from social science. All participant were lecturers and professors with aged interval 41-90 years. This questionnaire has 5 scale with 5 Likert scale mark with disagree strongly and agree strongly answer.

The BFI is based on an established and well-validated model of personality. The well-validated 44-item BFI was used to assess five broad domains of personality traits. ²³ The inventory comprised five scales with a variable number of items to be self-rated on a 5-point Likert scale ranging from strongly disagree to strongly agree. ³⁰ All items were rated using a five-point scale (1 = Disagree Strongly, 5 = Agree Strongly). A nine-item scale was used to assess extraversion (e.g., "is outgoing, sociable"; $\alpha = 0.81$). An eight-item scale was

used to assess neuroticism (e.g., "gets nervous easily"; $\alpha = 0.85$). A ten-item scale was used to assess openness (e.g., "is curious about many different things"; $\alpha = 0.80$). A nine-item scale was used to assess conscientiousness (e.g., "does a thorough job"; $\alpha = 0.81$). An eight-item scale was used to assess agreeableness (e.g., "is helpful and unselfish with others"; $\alpha = 0.81$). 30,31

RESULT

The distributed characteristics of research participants on **Table 1**, showed that the average amount of within social science

group which was 88 males and 28 females. From all the data, the amount of males is the most of all science groups which was 88 males. The most age interval of the sample which was on the interval of 61-70 years old and the amount of age interval of 71-80 years old within social science group was 40 and 38. Overall, the age interval of 61-70 years old within social science was the most of all science group, which was 40. Also, based on **Table 1**, it was identified that highest ratio of research sample based on sex and age interval was on social science group rather than health science group.

Table 1. Characteristic of research participants

		Health (Faculty of medicine, dentistry, Psychology, Pharmacy) n=50	Social N=116
Carr	Male	36	88
Sex	Female	14	28
	41-50	2	6
	51-60	6	24
Age	61-70	19	40
	71-80	19	38
	81-90	4	8

Table 2. Personality traits scoring of samples based on science group.

	Health (Faculty of medicine, dentistry,	Social
	Psychology, Pharmacy) n=50	N=116
Personality		
Neuroticism		
Extraversion		
Agreeableness	17	35
Openness	19	52
Conscientiousness	14	29

The result based on **Table 2**, showed that the samples consisted of three main traits of personality such as agreebleness, openness, and conscientiousness, according to scoring using BFI. The scores of agreebleness trait in the heatlh and social science program group were 17 and 35. The scores of openness trait in both groups were 19 and 52. Lastly, the scores of conscientiousness trait in both groups were 14 and 29 respectively. Overall, the highest score was openness trait in the both groups which were 19 and 52. The lowest score was

conscientiousness trait in the both groups. Generally, the result based on **Table 2**, showed that the highest score of personality trait was social science group.

DISCUSSION

There are various ways how the individual in giving some response to the stress or problem from the environment.³² Emotion, memory, and self esteem are basically the essential components in building human personality. Personality is a complex behavior

pattern which produced from the interaction between personality characteristics and neurobehavior. During adulthood, the negative energy in which is stored under unconsciousness state will occur in the form of certain personality traits.

Big Five Personality is an approach which used to evaluate the human personality through traits which are divided into five personality traits that have been formed by using factor analysis. The five big tratis are consisted of neuroticism, extraversion, agreeableness, openness, and conscientiousness.²³ Personality traits are defined as the traits from different individuals which tend to show the mindsets, feelings, and consistency, Traits can be divided into three main functions which are traits can be used to summarise, predict, and explain the individual behavior. The concept of traits provides economical way to summarise on how individual can be so different from the others. Traits also allows someone to create prediction on individual behavior continously.

Neuroticism $(N)^{32}$

Individual with the highest score on this trait has a tendency to experience anxiety, temperament, self-pity, self-consciousness, emotional and vulnerable to experience the interruption due to stress. Individual who has the lowest on this trait will have an tendency to be more happy and grateful on his/her life, calm, not emotional, compared to the individual that has the highest score. Other than that, individual that has highest score on this trait will have an tendency to have negative effect and increase of impulsive behavior.

Extraversion $(E)^{32}$

Extraversion is mostly defined as surgency. Individual that has the highest score on this trait will have an tendency to have full of affection, cheerful, sociable. This individual will entirely remember all social interactions and enjoy the process of interaction with many people. This trait is characterised with positive tendency such as having high enthusiasm, sociable, energetic, interested in many things,

having positive emotion, ambitious, workholic, and so friendly to other people, having high motivation in gathering, building relationship among others and being domimant within some communities or environment. On the other hand, indivual which has the lowest score will have a tendency to be more quiet, calm, passive, and unable to express his/her feeling.

Openness $(O)^{23}$

Based on **Table 2** show that this trait refers to how the individual being ready to do the adaptation towards some new situations and ideas (creative and imaginative). individual has some charactersitics such as easy to tolerate, having some capacity to absorb some informations, focus and able to be aware towards feeling, thought, and internal impuls. Individual with the highest score on this trait will have a tendency to achieve the harmony in their relationships with some things and all people they know. This indivual keeps looking for the differences and various experiences. Meanwhile, individual that has the lowest score will have some characteristics such as narrow-minded, conservative, and dislike the change.

Agreeableness $(A)^{32}$

This trait distinguishes between softhearted and non-merciful individual. Individual that has higher score on this trait (Table 2) will have a tendency to have prosocial behavior, high confidence, generous, relenting person, well reciever, and kindhearted. This kind of trait is mostly called as trait of social adaptibility, likability, which is identified as friendly individual, having a relenting personality, and like to avoid the conflicts. Meanwhile, individual that has lower score will have a tendency to be more suspicious, stingy, unfriendly, easily offended, aggressive, like to criticise other people, and less cooperative.

Conscientiousness (C)

Individual that has high score is individual which is obedient, controlled, regular, ambitious, focus on the achievement, and having a good self-disciplinary. This kind of trait also can be called as trait of dependability, impulse control and will to achieve. ^{25, 26} Based on **Table 2,** generally, individual that has high score will have some characteristics such as workholic, careful, punctual, and dilligent. Meanwhile, indivual that has low score will have a tendency to be more messy, careless, lazy, having no life purposes, and easily giving up as facing some problems.

CONCLUSION

Based on the result of research, this can be concluded that lecturers and/or headmasters show the tendency of personality traits such as agreeableness, openness, and conscientiousness. These three personality traits basically describe the tendency as following: 1. Getting the comfort and

enjoyment within their relationships with things and other people they know, 2. Characterising the individual which is friendly, having personality of relenting and avoiding some conflicts, and 3. Individual which is obedient, controlled, regular, ambitious, focus on the achievements, and having a good self-disciplinary. All those things are the parts in which every academic person should have.

CONFLICT OF INTEREST

The authors have no conflict of interest: they have no financial or personal relationships with other people or organizations that could inappropriately influence their work.

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