THE ASPERGER SYNDROME IN ALAN TURING CHARACTER ON *THE IMITATION GAME* FILM

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ABSTRACT

The aims of the study is to analyze the Asperger syndrome in Alan Turing character on The Imitation Game film. This research has two objectives: first, to describe the characteristic of the Asperger Syndrome in Alan Turing character on The Imitation Game film. Second, to reveal the verbal language problems of the Asperger Syndrome in Alan Turing character on The Imitation Game film. This research employed a descriptive qualitative method. It is concerned with the description of the data in the form of conversation on The Imitation Game film based on Tony Attwood theories of characteristic and verbal language problems of asperger syndrome.
Based on the obtained result, it can be concluded that Asperger Syndrome are the dominant characteristic of Alan Turing character in The Imitation Game film namely the difficulties communication and the controling of emotions. While the minimal characteristics are difficulties a making friends and often teased by other children. And then, the dominant types of verbal language problems found is the literal interpretation.

Keywords : *Alan Turing , Asperger Syndrome, Film, The Imitation Game*

Introduction

Language disorder is separate from speech impairment, which involves difficulty with the pronunciation of words that are often found among the public (Beitchman et al., 1996). So many types of language disorders are: childhood disintegrative disorder, pervasive developmental disorder, autism and asperger syndrome. Where not only autism is experiencing adversity but the condition of individuals with Asperger's syndrome can also be detected by the language they use because Asperger syndrome is within the scope of the autism spectrum having social disorders including the use of language.

Marganingtyas (2014) further, stated: Asperger's syndrome is one of the symptoms of autism in which sufferers have difficulty communicating with their environment, making it less acceptable this is part of autism where the sufferer has difficulty to have a good

interaction with living environment. There are many language differences used by people who are born with Asperger's syndrome (AS).

Asperger's syndrome is autism spectrum disorder (ASD), it is considered to be "high functioning" (highly multifunctional autism). Other types of ASD are disintegrative disorders of children, pervasive developmental disorders, and autism disorders. *Asperger's Syndrome* was first discovered in 1944 by an Austrian pediatrician named Hans Asperger (Attwood, 2007). Based on Tantam (as cited in Thijsse, 2008) discussed his view of the AS as a diagnostic entity, concluding that it is best to reserve the AS as a descriptive term for autistic children demonstrating certain characteristics.The child with Asperger's syndrome has characteristic and verbal language problems, as follow:

According to Attwood (2012), children with Asperger's syndrome have the following characteristics: delayed social maturity and social reasoning, difficulty making friends and often teased by other children, difficulty with the communication and control of emotions. Unusual language abilities that include advanced vocabulary and syntax but delayed conversation skills, unusual prosody and a tendency to be pedantic, fascination with a topic that is unusual in intensity or focus, an unusual profile of learning abilities, a need for assistance with some self-help and organizational skills, clumsiness in terms of gait and coordination and sensitivity to specific sounds, aromas, textures or touch.

In other hand, Attwood (2007), individuals with Asperger's syndrome are constrained on the difficulty of having a public conversation with others. From the pattern of Phonology and the syntax patterns show similarities between normal people and people with Asperger's syndrome, but there is a difference in the use of language in relation to the social context. The following 8 types of verbal language problems in individuals with Asperger syndrome that

include:lack of pragmatics, literal Interpretation, individuals with Asperger's Syndrome find it difficult to understand the meaning of each word literally, odds prosody, alternate language, use of Idiosyncratic Words , sounding the mind, auditory discrimination and distortion, individuals with Asperger syndrome find it difficult to hear both sounds (unable to focus), and verbal fluency. The child with Asperger's Syndrome can be seen on the film *The Imitation Game.*

The reason of the researcher chose *The Imitation Game* film and Alan Turing character as the *Asperger Syndrome* in this research that the film based on true story wich about tells the history of the life of a mathematician and secret code analyst Alan Mathison Turing in Maide Vale (1912-1954) or better known as Alan Turing. The film is adapted from Alan Turing's biography and the tittle of book is *The Enigma* written by Andrew Hodges's. Alan Turing is known as a mathematician, secret message analyst and war hero. From the description that Alan Turing's language and behavioral communication related to Asperger syndrome. Therefore, the researcher is interested in discussing about the asperger's syndrome on *The Imitation Game* film.

Research Design and Methodology

The research design of the study is a descriptive qualitative.This research include of 2 data: first, primary data is data collected by the researcher himself, the result is certainly more accurate and up to date. And in this study the researcher only used all of the conversation Alan Turing character in the imitation game film as a primary data in this research. Second, Secondary data is data collected by other parties. The secondary data in this study is director of the film, and the results of the data in the film. In this research, the researcher used for data analysis techniques according Spradley (2007) in Creswell (2012) this analysis divided into three

stages, as follow: domain analysis, taxonomy analysis and componential analysis is the final of both the above analysis.

Findingand Discussion

The finding section has two parts. Each part is divided into several subsections. The first section presents the finding of characteristic of the *Asperger's Syndrome* of *Alan Turing.* The second one presents the verbal language problems in the character with *Asperger syndrome.* Attwood (2007), Explained that an individual with *asperger syndrome* is somewhat difficult to have a common social and conversation with other people. The children with Asperger's syndrome have nine characteristics: Delayed social maturity and social reasoning, making friends and often teased by other children.

Difficulty with the communication and control of emotions, unusual language abilities that include advanced vocabulary and syntax but delayed conversation skills, unusual prosody and a tendency to be pedantic, a fascination with a topic that is unusual in intensity or focus, an unusual profile of learning abilities, a need for assistance with some self-help and organizational skills, clumsiness in terms of gait and coordination and Sensitivity to specific sounds, aromas, textures or touch. The following findings and percentage of characteristics can be seen in the table below.

Table 4.1.1: The Occurrence the characteristic of Alan Turing Character with*Asperger Syndrome*

No.	Characteristic of asperger syndrome	Frequency of Occurrence	Percentage
1.	C1	30	19.73%
2.	C2	3	1.97%
3.	C3	42	27.63%
4.	C4	22	14.47%
5.	C5	16	10.52%
6.	C6	14	9.21%
7.	C7	17	11.18%

8.	C8	5	3.28%
9.	C9	3	1.97%
	Total of Occurrence	152	100%

Based on the table above, there are 152 total occurrences of characteristic from the 56 conversations of Alan Turing character with Asperger syndrome on *TheImitation Game film*.

Delayed social maturity and social reasoning

A child with asperger's syndrome is a bit lack of concern for others but even so he still has empathy is also visible on the nature of an Alan Turing. In the research, reseacher findings that delayed social maturity and social reasoning as the second position for having 30 data or it is 19.73%. There are example the conversations of Alan Turing character in *The Imitation Game* film.

> Extract
> Detective : Professor Turing?
> Alan   : Take a step back and don't breathe heavily.

In the scene: 1/00:03:47 sec., Alan was sweeping the cyanide and advised the detective not to come near and breathe the air from the cyanide.

Difficulty making friends and often teased by other children.

A child with asperger's syndrome usually have difficulty getting friends. This characteristic has also of Alan Turing character in *The Imitation Game* film, as shown that 3 data of the accurrence 1.97%. there are example of the conversations.

> Extract
> Detective 1: So how about you tell us what happened and we'll find the chap who did this.
> Alan   : So unless one of you has an apron in your car, I suggest you tile your reports and leave me alone.

In the scene:1/00:04:53 sec. at home's Alan was sweeping the cyanide and advised the detective not to come near and breathe the air from the cyanide.

In the other pleace Alan care toward friends's and social life, he speak with Jhon.

Difficulty with the communication and control of emotions

A child with asperger's syndrome will not understand with a symbol, and to the point, this theory by Attwood and the characteristic always find the conversations of the Alan Turing character in *The Imitation Game* film this is highest in frequency. The data shows that 42 of the total occurrence 27.63% from 152 data.

Extract
Denniston : And how old were you when you became a
    fellow at Cambridge?
Alan   : Twenty-four.

In the scene:3/00:08:52 sec. at the time Alan and comander Denniston talk about age and all about personality Alan, where alan turing always replied briefly and only need.

Unusual language abilities

In the unsuaal abilities includeadvanced vocabulary and syntax but delayed conversation skills, unusual prosody and a tendency to be pedantic. A child with asperger's syndrome a language ability that is less than normal people, but a child with asperger syndrome is very clever and famous for small child proffesor, like Alan turing in the film. He have above average IQ based on theory Attwood and the data shows for having 22 data or it is 14.47%. There for example in conversations Alan with commander Denniston.

Extract

Alan   : Well, Newton discovered Binomial Theorem aged
    22. Einstein wrote four papers that changed the
    world by the age of 26. As far as I can tell, I've...
    I've barely made par.
Denniston : My God, you're serious.

Alan cleverly explained his various knowledge with Denniston's commander. In the scene: 3/C4; 00:09:10 sec.

A fascination with a topic that is unusual in intensity or focus

A child with asperger's syndrome really likes the discussion or different topics with normal children, it does not close the possibility of asperger syndrome child if adulthood will become a scientist this theory by Attwood. Such as Alan Turing who was interested in crossword that became a problem solver during World War II in England and the result in findings is 16 data or it is 10.525%.

Extract
Alan   : The top secret programme at Bletchley. You're trying to break the German Enigma machine

Alan is very excited about the secret program at Bletchley, because this is the field of science he loves about the enigma.

An unusual profile of learning abilities

A child with asperger's syndrome sufferer is a smart child but only likes one field, and he will always pursue it to get results. And the shows data is 14 or it is 9.21%. there are example of conversations of Alan Turing character.

Extract
Alan   : I'm really very good at games, uh, puzzles. And this is the most difficult puzzle in the world. (scene:3/N19/C6; 00:10:39 sec.).

A need for assistance with some self-help and organizational skills

According to Attwood, A child with asperger's syndrome sufferers can solve a problem if there are others who really believe in their ability and join to form an organization. And the fourth position is characteristic for having 17 data or it is 11.18%.

Extract
Denniston : If you had, you wouldn't be hiring cryptographers out of university.
Alan   : You need me a lot more than I need you. I... I like solving problems, Commander. And Enigma is the most difficult problem in the world. (scene: 5/N23/C7; 00:11:38 sec.)

Alan is eager to help solve the world's problems but he needs other friends to help solve the problems.

Clumsiness in terms of gait and coordination

A child with asperger syndrome sufferers will clumsiness establish communication against a group of people the statement by Attwood and the shows the table the data clumsiness in terms of gait and coordination is 5 data or it is 3.28%.

> Extract
> Alan   : Enigma is an extremely well-designed machine. What if only a machine can defeat another machine?

Alan talking the enigma can help the world In the scene: 5/N24/C7; 00:11:56 sec. Alan explant about enigma toward Denniston, caused he need mechine and he need money to buy mechine.

Sensitivity to specific sounds, aromas, textures or touch

A child with asperger's syndrome do not like if they must go to noisy place. Like a aromas in the Alan home's. And the last of data is sensitivy to specific sounds, aromas, textures or tuch this characteristic very litle findings for having 2 data or it is 1.97%. For example in conversation:

> Extract
> Detective Nock: Breathe?
> Alan   : Undiluted cyanide. It wouldn't take more than a thimbleful

In the home, Alan was sweep cyanide. (N1/1/C9).

Meanwhile, verbal language problems are a symptom that children suffer with asperger syndrome, where the child with asperger syndrome experience verbal language problems that include difficulty in the phonology and syntax. When an individual with asperger syndrome committing the verbal language problems. The researcher analyzed 56 conversations and 108 ccurrences of the data which show verbal language problems. The researcher

presents table about verbal language problems that are committed by the main *Alan Turing* character in *The Imitation Game* film.

Table 2. The Occurrence of Verbal Language Problems of Alan Turing Character with*Asperger Syndrome*

No.	Verbal Language Problems of asperger syndrome	Frequency of Occurrence	Percentage
1.	Lack of Pragmatics	26	24.07%
2.	Literal Interpretation	27	25%
3.	Odd Prosody	15	13.88%
4.	Alternate Language	8	7.40%
5.	Idiosyncratic Use of Words	5	4.62%
6.	Sounding the Mind	7	6.48%
7.	Auditory Discrimination and Distortion	6	5.55%
8.	Verbal Fluency	14	12.96%
	Total	108	100%

Based on the table of occurrence above, the literal interpretation is the highest in frequency. This section explains the characteristic and types of verbal language problems as the companion of the verbal one.

Lack of Pragmatics

A pragmatic problem or 'art of speech' is a matter of using language
in a social context. Individuals with Asperger syndrome like to interrupt while the couple is talk when the couple has not ended his conversation. And there are 26 data of lack of pragmatics or 24.07%, based on theory Attwood.

Extract
Alan : I don't speak German.
Denniston : What?
Alan : I don't speak German.
In scene:3/N16: 00:10:18 sec. Alan only speak, *I don't speak German*. This shows that Alan turing has the nature and a pragmatic problem or art of speech' is a matter of using language in a social context.

Literal Interpretation

Individuals with Asperger's Syndrome find it difficult to understand the meaning of each word literally. The data shows that 27 of the total occurrence belong to literal interpretation or it is 25%, this accurrence highest in verbal language problems.

> Extract
> Detective : so how about you tell us what happened and we'll find the chap who did this.
> Alan : Gentlemen, I don't believe that you could find he chap that did this if he walked up to you and spat in your face.

Alan is very serious about cleaning cyanide and he does not care about the presence of people in his house. (scene:1/ N5/LI; 00:03:12 sec.).

Odds Prosody

Odds prosody is the tone of the language, usually using different intonations, volumes and press important words in an occasion. The tone that is spoken usually varies depending on each personal speaking. Odd prosody for having 15 data or it is 13.88%.

> Extract
>
> Alan : I'm afraid I don't know what those are, Commander Denniston

Alan and commander Denniston talking about the enigma. Alan is always long and the atmosphere is very monotonous. (scene:3/N20/OP; 00:10:48 sec.)

Alternate Language

Attwood stated that a person with asperger syndrome usually uses a formal language and does not like to be wordy. Formal words in conversation even for the names of their friends and the result of frequence accurrence of alternate language is 8 data or it is 7.40%.

> Extract
> Alan : That that's a requirement for employment here, Mr... Commander Denniston, Royal Navy.

Alan Turing used formal word Formal words in conversation even for the names of their friends. (scene:3/N13/AL; 00:09:23 sec.)

Use of Idiosyncratic Words

Based on Attwood (2007), the use of idiosyncratic words is one of the strengths of Asperger's syndrome, which can find a new vocabulary to define something and the result of frequency occurrence is 5 data or it is

4.62%.

Extract
Alan   : The top secret programme at Bletchley. You're
               trying to break the German Enigma machine.

The name of Alan Turing's Alan Turing's machine is a computer.(scene:3/N22/UIW; 00:11:12 sec.)

Sounding the Mind

According Attwood (2007), sounding the Mind is occur to children whether they are normal or born with Asperger's syndrome. Individual Asperger's Syndrome seeks comfort, arranges the next speech and repeating something to better understand the subject. And sounding the mind has 7 data or 6.48%.

Extract
Alan   : Enigma is an extremely well-designed machine.
               What if only a machine can defeat another
               machine?

Alan stated that enigma is extremely well-designed machine, this differences with call another difination another people. (scene:7/N38/SM; 00:22:03 sec.)

Auditory Discrimination and Distortion

Individuals with Asperger syndrome find it difficult to hear both sounds (unable to focus). If they hear two people talking at the same time, they will interpret both from them. And They are auditory discrimination and distortion is 6 data or it is 5.55%   based on Attwood theory.

Extract
Carke   : If you don't respond to the complaint, I shall have to take it up with the Home Office.
Jhon   : Put those files by my desk.
Alan   : Fine. My response is they're all idiots, fire them and use the savings to fund my machine. I only need about 100,000.

Alan can not focus and he just answers what he thinks and only focuses on his work. (scene:7/N36/ADD; 00:21:45 sec.).

Verbal Fluency

Individuals with Asperger's syndrome can sometimes be very calm. But it will change if they meet or see something they like fanatically, they will talk everything about those things is relentless and focused on the topic of conversation. And verbal fluency having data 14 or 12.96%.

Extract

Jhon   :There you go.
Clrake   :Here. Some men try flowers, you know.
Alan   : These are actual decrypted Enigma messages direct from Nazi High Command.

Alan focus on the topic that is enigma messegaes dirrect from Nazi High command. (scene:8/N49/VF; 01:04:35 sec.)

Based on the findings the asperger syndrome in Alan Turing character on *The Imitation Game* film. There are table of characteristic and verbal language problems.

Table 3. Characteristic and Verbal Language Problems of *Asperger Syndrome.*

	Frequence of occurence	
	Minimal	Maximal
Characteristic	Dificulty making friends and often teasted by other having 3 data or 1.97%	Difficulty with the communication and control emotionts having 42 data or it is 27.63%
Verbal Language Problems	Idiosyncratic use of words having 5 data or it is 4.62%	Literal interpretation having 27 data or it is 25%.

Based on componential analysis the asperger syndrome of Alan Turing character, the researcher analysis that fourth of characteristic are difficuly with the communication and control of emotions, delayed social maturity and social reasoning, language abilities that include advanced vocabulary and syntax but delayed conversation skills, unusual prosody and a tedency to be pedantic, and a need for assistance with some self-help and organizational skill. The finding supported by characteristic theory bassed on Attwwod (2007) stated that the characteristic child with asperger's syndrome have nine characteristic.

In this thesis, researcehr found that Alan Turing has difficulty with the communication and control language of emotions. Alan Turing caharacter show a lot of arrogant nature, always to the point in any case, do not understand the symbol and lack of emotional control, and if there is a problem Alan more often aloof from his colleagues. Furthermore, the second characteristic is delayed social maturity and social reasoning. After that, a child with Asperger's syndrome experiences social delay and social reasoning in which the brain and behavior interact with the social is very lacking, it is also shown by Alan in the imitation film games.

On the other hand, the characteristis Alan Turing is language abilities that include advanced vocabulary and syntax but delayed conversation skills, unusual prosody and a tedency to be pedantic, and a need for assistance with some self-help and organizational skill is very dominant characteristict of Alan Turing. Meanwhile, the fith of characteristic is not found but this very important and affect the sosial life of Alan Turing. There are difficulty making friends and often teased by other children, a fascination with a topic that is unusual in intensity or focus, an unusual profile of learning abilities, clumsiness in terms of gait and coordination and Sensitivity to specific sounds, aromas, textures or touch.

According to Attwood (2007), the verbal language problems is the most widely found literal interpretation, which Alan in this movie is very much calling or repeating the word, when talking to someone.

The people affected by asperger syndrome is difficult to know maxims, idioms and dislike this joke is indeed owned by Alan Turing. Furthermore, the lack of pragmatic that was found in Alan Turing character. And then, Alan has a problem in social context. The researcher can be seen from the way conversation to his friends in the film. After that, odds prosody that have difference tone or intonations and speech volume that monotone, this is obvious when Alan speaks must always be monotonous and unlike normal people when talking will definitely use body language. The type verbal fluency on Alan character is also found but not same like the first and third types, where this type Alan only have a little problem in the conversation or dialogue, while for the other three types Alan only a little is proven from the findings that the three typesis only slightly visible from the conversation that is used Alan Turing.

Conclusion

Based on the findings and analysis, the results of the research can be concluded as follows: from the ninth most dominant of characteristic in Alan Turing character in *The Imitation Game* film is difficulty with the communication and control of emotions. While the minimal of characteristics is difficulty making friends and often teased by other child.

Therefore, the type of verbal language problems found in most dominant is the literal interpretation. Alan's remark shows that literal interpretation is. Meanwhile, the verbal language problems at the least is idiosyncratic use of words.

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