Handwriting Analysis and Blank Picture of Thematic Apperception Test in Relation to Richness of Imagination

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Introduction

An image or visual stimulus in the environment plays an essential role in exercising the imagination. An imagery based account of the imagination is directed to the mental imagining but if the image is entirely eliminated then it brings out the true nature of imagination. Hammer (1958) hypothesised that painters, composers, designers, and anyone who uses their imagination projects his personality through the form of self expression. Roeckelein (2004) describes imagination as the "recombination of memories of past experiences and previously formed images into novel constructions".

Projective techniques are strategies used to access presumably repressed content that is often unconscious or difficult to get access. Projective techniques are predicated on the assumption that a person will cast his or her unfiltered perception, feelings, and desires onto neutral or ambiguous images (Branthwaite, 2002). There are five classifications of projective techniques based on response elicited (Linzey, 1959), namely associative, completion, constructive, ordering and expressive techniques.

Thematic Apperception test (TAT) is a constructive projective test developed by Morgan & Murray (1935) which uses stimulus pictures of intentionally varied ambiguity to evaluate a person's pattern of thoughts, attitudes, observational capacity and emotional responses to ambiguous test materials. TAT is so integrally involved with Murray's concept of personality and the hypothesis is, that when someone attempts to interpret a complex situations he is apt to tell as much about himself as he is about the phenomenon on which his attention is focused. It is a test of imagination in which subjects have to write a story on and around the picture image shown to them. They have to write what led to the situation, what is going on and what the outcome will be? They have to describe thoughts, feelings and actions of the characters involved in the story. At such times the subject is off guard, since one believes that one is merely explaining objectives occurrences. There are eleven pictures and one blank picture and each of these pictures has a differential evocative power with respect to different aspects of personality. A blank picture is described where no situation or character presented to the subject. One is free to imagine a situation and characters of his or her own choice and then have to write a story. It is the last picture to be shown in the set of 12 pictures of TAT.

Assumptions underlying TAT &it's significance to Blank Picture

- 1. In creating a story the storyteller ordinarily identifies with one person in the drama and the wishes, strivings and conflicts of these imaginary persons may reflect those of the storyteller. The same is applicable to the blank slide as the storyteller writes a story with a hero, who is none other than the person himself.
- 2. The storyteller's dispositions, strivings and conflicts are sometimes represented indirectly or symbolically and the same goes to blank picture also. The storyteller imagines a picture of his own and the hero's dispositions, conflicts get reflected indirectly.
- 3. All the stories are not of equal importance. Similarly, blank picture may provide a very large amount of valid diagnostic material, while others may supply little or none.
- 4. Themes that appear to have arisen directly out of the stimulus material are less apt to be significant than those that do not appear to have been directly determined by stimulus material.

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- 5. Recurrent themes (that show up in three or four different stories) are particularly likely to mirror the characteristics of the storyteller.
- 6. The stories may reflect momentary characteristics of the storyteller as well as enduring characteristics in blank slide the storyteller plots a theme which is close to his/her personal life so that's one of the most important reason blank story matters in psychological assessment.
- 7. The storyteller may reflect events from past that the subject has not himself actively experienced, but has witnessed or observed (street scenes, motion pictures). Although the subject has himself not experienced but he selects them, is itself indicative of his own impulses, likings and conflicts. The blank picture intends to dig out personalised specific core unconsciousness of an individual and it provides good leads to be verified for confirmation by other methods.
- 8. The eleven stories along with the blank one may reflect the group membership and socio-cultural determinants in addition to individual or personal determinants.
- 9. Dispositions and conflicts inferred the storyteller's creations may be unconscious and thus may not always be reflected directly in overt behaviour or consciousness. There is always a "Beta Press" in the blank story. Beta Press refers to individual's perceptions and interpretations of specific aspects of the environment. Most behaviour is a direct result of Beta Press, the environment determinants that elicit specific behaviour from individual specific needs within him or her.

Blank Picture: It's Importance As Single Identity

If we view blank picture in isolation it holds immense importance. It completes the imagination of an individual by constructing theme of his own liking and interest in which he reveals, what he was unable to do so in the previous eleven pictures. The twelfth picture is purposely kept blank to culminate or conclude the flow of unconscious with individual's own choice. It gives a feeling of satisfaction to the storyteller as it gets concluded in a manner of his choice and wish. This feeling of completeness means the subject is able to write the story based on his core unconscious, where the personality revolves which otherwise was not able to get expressions in the rest eleven stories. Hence the blank picture is the true measure of imagination based on imageless picture.

Handwriting starts out as a chain of isolated motor movements, but it is radically altered with practice, and converted into a 'kinetic melody' no longer requiring the memorizing of the visual form of each letter or motor impulse for making every stroke (Luria,1973). As one writes, imagination plays a crucial role, it's the inner speech. Graphologically, unconscious automatism is a realm that encompasses latent memories, the censor, the defense structure, symbolic behavior, and the automatism. Handwriting crosses that border between thoughts and physical expression, reflects the psychology of mind. When the censor is weakened in the last blank picture of TAT, the repressed material thereby released unconsciously in the form of hypercathexis through the symbolic act of handwriting. The imagination exercised during dynamically creative unconscious in the blank picture contains idiosyncrasies and also individuality. These automatisms indicate the richness of imagination which can be observed into the artful science of handwriting. Since the graphology and TAT are both projective in nature, therefore the aim of the study was to explore handwriting analysis and blank picture of TAT in relation to richness of imagination.

Aim: Handwriting characteristics of imagination in blank picture of thematic apperception test

Null Hypothesis: There will be no difference between blank picture of TAT and handwriting analysis in assessing richness of imagination.

Methodology

Sample: The stories on blank picture were collected from a sample of seven subjects who wrote Thematic Apperception Test. All subjects were male and their average age was 20 years. They have passed the school.

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They were from middle socio-economic status and mentally normal healthy individuals. They all were right handed.

Procedure: The various features in handwriting through which features of imagination can be commented upon were taken into consideration (Amend & Ruiz,1980). Seven features of handwriting which depicts imaginations were upper zone, arcades, loops, t bar above stem, crossing t bar over looped stem, round i dot placed high above the stem and sharp accent i dot high above the stem. The qualitative approach of research was carried out. The seven samples of stories in blank picture of seven storytellers were analyzed in a structured way. To enhance objectivity and validity of findings, an independent professional graphologist was involved to do the assessment. Blind analysis was carried out by another independent graphologist as recommended by Wallner (1975) and Nevos (1989). Some information about the sample was shared to the independent examiner such as the gender, age and whether storyteller was either a left-hander or a right-hander. Following were handwriting samples of seven story teller:-

Storyteller 1

12 Sameer was working as an engineer in UPE. He worked well for long time & gat good exposor of knowledge & good hold of maney. He went buck to his country to be with famy & work three but his young age & unerplayment in country left with less productive expose. Oscillated the local business. He thought to make an arabic cafe. He studied likes of locals. These of honging out to wort to bit cafe owners & worked for John Venture as Git reduces risk. It gat all permission & boked for an cook. He tasted the cook & started burneds. Promoted it on FM & savial media. Soon youth liked the rew flavour & soncret saw a hike in busineer. It was running good & samelle one hoffy as it gove some enfloyent to locals too.

Storyteller 2

12. Vanus, was an electrical engineer, he always farcied flying objects, so he always farcied to build a dishe he food he decided to build a dishe he food he decided to build a dishe he forward along with him in the his forward along with him in the his forward searched the sinderest warrious here desting and technology being warrious here desting and technology they decid the divided the divided the divided the divided the divided to put a camera and Inliva Red inage; team members for more efficiency. They have armed to be used by the armed to he used by the drone was completed in the drone was completed the drone, and assign accepted the drone, and assign.

Storyteller 3

had Inspriation to John in Sorvice. For that he use the go running accross the vally. One fitse Day while poing Running he litear a sound of Crash, the ran ho The Direction of sound he saw a Trining ar craft was crashed. He Tryes to Holp the pilot but The Craft is so hodged to best. He Ran back to village call people and Resequire the pilot and admit to hospital and save his life. Piplot Bytes receiving meet him and Thanked hims the also got that years preparition and sounce.

Storyteller 4

one peoson wery hard undrugen uniqued) place three one peoson wery hard work on his feathers dears: on the exilting statum. Accepted he get a study feather some cachine in histite, the get out of other critical & he show come can states & this dries people & observed oned oned ones where he tome in trajunt of get in possibles & the get a other here to the get a other of the get a minister of the cultural work of or the unique of foodies & he get a pointe-minister of foodies & it never hard work of or the cultural to the get a pointe-minister of foodies & it never of states of states of foodies & it never of states of sta

Storyteller 5

12 Redict is a seriour conteasione and Bound of Ledon this verigin could be sent the serious colored tell colored the beauty that the weart land colored tend to part the beauty that p. M. JAN DHAN Tojund the series white and the series will again and the series will again and to surfamen because period and the surfamen beauty period and the surfamen beauty period and the surfamen beauty period and the surfament beauty the surfament beauty the surfament beauty that the surfament the tell the property chart they will a good

Storyteller 6

Mark is has been som a of enthuisestic person as a young child & loves music. So, when he grows older, he becomes a music phoducers he makes good music wideos but wants someting more which could connect the music wideos to people on another level. So, he finds out about VR technology & west that as a median to come wasic wideos to people which is faranting music wideos to people which is faranting and he achive something greater which he

Storyteller 7

12. Amit was an NCC cadeat. One day he was returning from his NCC parade. He saw one accident. He saw one accident. He that one scooler erash with one motor. He immediately that one scooler erash with one motor. He immediately that one he spot and give that person first aid. First rush on the spot and give that person first aid. First he take him to read side. Then with the help of he take him to read side. Then with the help of that motor he hospitalise that injured person. He that motor he hospitalise that injured person. He took care of that person till his family number come. Then he goto home after doing that dob. He feels he goto home after doing that dob. He feels

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These handwriting samples of story in blank picture written by seven storytellers were analyzed against the presence or absence of seven features of handwriting that depicts richness of imagination exercised as specified above.

Handwriting Features of Imagination Richness	Presence or Absence of Handwriting Features Storytellers						
	1	2	3	4	5	6	7
1 Overly extended Upper Zone	0	0	1	0	0	1	0
2 Big Arcade	0	0	0	0	0	1	0
3 Tall Loops	0	0	0	0	0	1	0
4 t bar high above the stem	0	0	0	0	0	0	0
5 Crossing t bar in a looped stem	0	1	0	1	0	0	0
6 Round i dot placed high above the stem	1	1	1	0	1	1	1
7 Sharp accent i dot high above the stem	1	0	1	0	0	0	0
Total	2	2	3	1	1	4	1

The scoring of the TAT has been largely restricted to content analysis, a qualitative approach of assessment. The scoring of the story in blank picture has included three aspects for richness of imagination which can be categorized- fantasy, realistic and preconceived. Scoring has been made simple and objective in nature. Richness of imagination was assessed on the basis of content analysis of story by the professional expert of projective technique.

Table 2: Thematic Apperception Test Analysis of Imagination Richness								
Story	Theme of the Story in the Blank Picture Fantasy (Day dreaming & Creative)		Realistic (Moderate Projection & Moderate Creative)	Preconceived (Routine & Mundane)				
1	A foreign returned engineer establishes business of Arabic cafe in India	×	V	×				
2	An electrical engineer builds a drone and presented idea to Defence Lab	×	V	×				
3	A boy gets gallantry award by the president for rescuing the pilot from crashed aircraft	V	×	×				
4	Story of Narendra Modi becoming PM of India	×	×	√				
5	Senior executive of bank along with sarpanch making aware of villagers about PM Jan Dhan scheme	×	×	V				
6	A music lover & producer explore the VR technology to connect the music videos and people on another level.	√	×	×				
7	A NCC cadet provides a first aid to the injured person in a road accident situation.	×	1	×				

Discussion

In blank picture the stimulus being imageless, gives an opportunity to express impulses, it puts pressure and repressed impulses in unconscious to get expression of mental images which plays an essential role in the imagination. As discussed, the blank picture is of vital importance and it provides immense "leads" to fulfill quench of imagination in an individual. The blank picture is a way of making the invisible visible, the irretrievable retrievable in some manifest form. It illuminates the unconscious process of which the subject was not aware. Hence, the blank picture of TAT was taken into consideration as best possible way to measure the richness of imagination. Graphology being interdisciplinary creative research field of projective technique has stimulated the present research topic of assessing richness of imagination.

Refer table 1, the storyteller no. 6 scores highest (4) on handwriting features of imagination richness, followed by storyteller no. 3 who scored 3, least scorers were storyteller no. 4, 5, 7 who scored 1 each. This reveals that the handwriting of storyteller no. 6 has featured maximum indicators of imagination richness namely – overly extended upper zone, big arcades, tall loops, and round I dot placed high above the stem, whereas second most scorer storyteller no. 3 showed the overly extended upper zone, round I dot placed high above the stem and sharp accent I dot high above the stem. Hence, it can be said that handwriting features of storyteller 6 and 3 reflected maximum richness in imagination while writing story on blank picture of TAT. Now refer table 2, the themes of story written in blank picture were divided into three categories of imagination richness – fantasy as highest, realistic as moderate and preconceived as least imagination. Here also, storyteller no 6 and 3 scored highest by using fantasy in their imagination while storyteller no. 4 and 5 were least using preconceived ideas. Therefore, the null hypothesis is accepted that there was no difference between blank picture of TAT and handwriting analysis in assessing richness of imagination.

References:

- 1. Amend, K., & Ruiz, M.S. (1980). Handwriting Analysis- The Complete Basic Book. New Page Books, Career Press Inc. Franklin Lakes, NJ, USA. ISBN 0-87877-050-X
- 2. Branthwaite, A. (2002). Investigating the power of imagery in marketing communication: Evidence-based techniques. Qualitative Market Research: An International Journal, 5(3), 164–171.
- 3. Hammer, E.F. (1958). Clinical Application of Projective Drawings. Springfield: IL. Charles C. Thomas.
- 4. Linzey, G. (1959). On the classification of projective techniques. Psychological Bulletin, 56(2), 158–168.
- 5. Luria, A. (1973). The Working Brain. Higher Cortical Functions in Man. New York. Basic books, springer
- 6. Nevo, B. (1989) Validation of graphology through use of a matching method based on ranking. Perceptual and Motor Skills, 69, 1331-1336.
- 7. Roeckelein, J.E. (2004). Imagery in Psychology: A Reference Guide. Westport: CT. Praeger Publishers.
- 8. Wallner, T. (1975). Hypotheses of handwriting psychology and their verification. Professional Psychology, 6 (1): 8-16.