

PROCEEDING

THE 3rd SUMMIT MEETING ON EDUCATION
INTERNATIONAL SEMINAR

Values – Based Learning for Wonderful Children

Yogyakarta, November 22nd 2016

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Teacher Education “Madrasah Ibtidaiyah”

Faculty of Tarbiya and Teacher Training
State Islamic University Sunan Kalijaga
Yogyakarta

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Editors:
Istiningsih
Muqowim
Aninditya Sri Nugraheni
Fitri Yuliawati

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Editor : 1. Istiningsih
2. Muqowim
3. Aninditya Sri Nugraheni
4. Fitri Yuliawati
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Phone : +6281555666954
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**PREFACE: PROCEEDING THE 3rd SUMMIT MEETING ON EDUCATION
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Alhamdulillahirabbil'alamin. Wabibinasta'in 'alaumuridunnyawaddin. Wash-sholawatuwassalamu'al aasrofilanbiya'Inalmursalin. Wa'alaalihawaashabihajmain. Ammaba'du. Praise be to Allah, prayers and greetings may always devoted to the Prophet Muhammad, and his Companions and those who continue to follow his Sunnah.

This international seminar was held on the basis of the need for the sake of change, innovations are constantly learning to the attention of academics and practitioners. In this case teacher education “madrasah ibtidaiyah” will make every effort to continue to develop activities that support quality improvement, both for professors, students, and even for alumni of primary education itself, as well as the public in general as users of the alumni in primary Faculty Tarbiyah and Teaching Training, UIN Sunan Kali jaga

The quality improvement of which is done in the form of implementation of the ‘international seminar’. The international seminar will set the theme of **The 3rd Summit Meeting on Education 2016**. The activities organized include the activities of the International Seminar on the theme **Values – Based Learning for Wonderful Children**.

The speaker of this event from various countries, namely:

1. Diane Tillman from USA
2. Christopher Drake, Association for Living Values Education International from Tiongkok
3. Taka Nurdiana Gani from Indonesia
4. Ahmad Arifi from Indonesia

So that we can convey the essence of the organization associated with the The 3rd Summit Meeting on Education. We thank you very much for your participation and support from various parties that we can not mention one by one. Without the help and participation of colleagues of all these activities can not be carried out well. Hopefully this activity can increase the contribution to the repertoire of science, especially in basic education and bring benefits to the participants and readers.

Yogyakarta, November, 22nd 2016

International Seminar Committee

PREFACE

All praise be to Allah SWT, for His bless and mercy, so that we as editorial team can complete this international seminar proceedings. The International Seminar that held by Department of Education for Madrasah Ibtidaiyah Teachers (Prodi Pendidikan Guru Madrasah Ibtidaiyah/PGMI) Faculty of Tarbiya and Teaching Training, State Islamic University Sunan Kalijaga Yogyakarta is held annually as a part of 3rd Summit Meeting on Education with the theme: “Values-Based Learning for Wonderful Children”.

This Proceedings deliver main papers from seminar speakers, i.e.: Diane Tillman, Christopher Drake, and Taka Nurdiana Gani, Ahmad Arifi; and also supporting papers that consist of eleven papers related to the implementation of values education in general; and ten papers related to the implementation of values education for children.

We very appreciate for the participation from researchers and writers for their papers that submitted to this proceeding, especially to writers from: The Islamic State Institute Imam Bonjol Padang, The State Islamic University Raden Fatah Palembang, The State Islamic University Syarif Hidayatullah Jakarta, The State Islamic University Sunan Kalijaga Yogyakarta, Majalengka University, The STAIN Pamekasan, Jabal Ghafur University Salatiga, the State Institute for Islamic Studies Ma’arif NU Metro, Muhammadiyah University Yogyakarta, IAI Ibrahimy Genteng Banyuwangi, The State Islamic Institue Syekh Nurjati Cirebon, Muhammadiyah University Magelang, and Sriwijaya University Palembang.

We have tried to compile these proceedings as well as possible. For the sake of improvement in the future, we expect criticisms and suggestions. Hopefully, these proceedings can be beneficial for knowledge development and can contribute to the advancement of education in Indonesia.

Yogyakarta, November, 22nd, 2016

Editorial Team

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SPIRITUAL NEUROSCIENCE IN LEARNING

Heni Listiana

A lecturer of the department for teachers of Islamic Primary School STAIN Pamekasan¹

Abstract

Spiritual Neuroscience is a part of neuroscience which identifies some important areas of brain that relate to neurotransmitter like the operator of neurospiritual (ONS). The prefrontal cortex, associational area, limbic system and autonomic nervous system are to do with it. The fourth area is importance for developing the men's spiritual. The role of those area is importance for decision making, future planning, and social judgement. The men who often do spiritual activity will be out of psychiatric disorders and having peace of soul. The peace that can be used in optimizing the learning. In another hand, ONS functions as creating personality. There are two aspects of every student such as physical and spiritual. Integrating between physical and spiritual in the process of learning will ease a teacher for classroom management.

Keyword: *Learning, Neuroscience, and Spiritual Neuroscience*

A. Introduction

Teaching model always develops for adjusting with classroom dynamics. The role of teacher is to manage the learning, in order that the student can learn, meet capability, characteristic, learning style of every student. The capability of teacher in managing a classroom is affected with a will and principle of learning that is learnt by previous teacher. Experience is to be the important thing for deciding the method used or not.

Learning is not about the skills of the past, but learning must be in line with development of human civilization such as science or technology. Because of that, the slightest opportunity to look can give a way to go to improvement of learning in a classroom of every teacher.

Events and happenings will just continue to occur as same will just continue to occur as same as science. The disciplines will just appear to a blend of each discipline. There are the disciplines developing fastly and there is the development of another discipline useless.

One of the disciplines that have rapid development relates to learning is neuroscience. The science basically specializes in scientific study of nervous system. Then, it is adopted for looking for learning model by considering the presence of brain in the process of learning.

The human brain accepts everything by the senses. All of the men's actions are the work of human brain. It is same as learning. In addition to the physical presence of student, the learning student gets stimulus of information which can change the behavior. The change of behavior is a result of the process of accepting and responding that happen in a brain. It is called learning.

Neuroscience is the study of the nervous system in human brain. The study of neuroscience

¹ Author is the lecturer of analysis of Islamic Education curriculum in the school. (E-mail: h3n1.listiana@gmail.com)

is about awareness and sensitivity of the brain in terms of biology, perception, memory, and its relation to learning. For the theory of neuroscience, the nervous system and brain are physical principle of human learning process. Neuroscience can create the relation between the process of cognitive inside the brain and behavior that will be. It means every request that comes from the brain will activates the important areas of the brain.²

This neuroscience can be used for looking for the concerned information with how the student's brain work when learning, what makes the brain be stimulated, the physical condition such as what factor makes students comfortable in learning, what action and program can activate the brain, and when the effective time to learn is. All of them can see from the reaserch of neuroscience expert in exposing the unknown thing of human brain. The finding can be the basis in developing the learning of student in the classroom.

By knowing the structure, function, how the brain and nervous system³ can help a teacher to manage the learning based on the student's need. Approach of this neuroscience describes more whole biological and psychological process when making the learning process. Why is the brain? Because the brain actually plays an important role in the whole setting bodies and human thought. The brain is responsible for all of the capabilities and complexities of human and includes the poces of learning.

All processing is done either perception, thinking, learning, remembering, act made possible by the integrated activity of the nervous system cells (neurons). All of information in light, sound waves, smell, taste, or touch the object are collected from area by specialized cells called **sensory neurons**. The movement can occur due to contraction between sensory neurons and motor neurons that is interneurons (neurons are entirely located within the central nervous system). **Local interneurons** form a circuit with the surrounding neurons and analyze small pieces of information. **Relay interneurons** connect local interneuron circuits in the brain with similar circuit in other connectings. Neuron circuits in the brain do essential functions for tasks such as perception, learning, remembering, deciding and controlling complex behaviors.⁴

None of the brain part work by its self. Information (in the form of nerve impulses) is transfered fastly to the brain,althought many functions of the brain that is localizide. The part of brain that deffers is involved in processing tasks, even simple tasks.

The parts of brain above are connected each other, because of the role of neurotransmitter. Learning uses the role of neurotransmitter for molded, reinforced, and connected with each other via the use connection. Meanwhile, some specialists have fallen on feet to know spiritual neuroscience that takes a part in spiritual activity.⁵ Neurotransmitter that relates to spiritual neuroscience (neuroscience that studies the brain and human spirituality) is called by **operator of neurospiritual (ONS)**.

2 Ummu Aiman, *Apa itu neurosains?*. http://www.kompasiana.com/aiman17/neurosains-apa-itu_55200701813311546f9de61fNeurosains. It is downloaded in November15, 2016

3 Nervous system is composed by abound of cells, is called neuron. That especially to manage and send the information. Neuron is relating one to the others by one conductor called Sinaps. The information is sent from one neuron to the others by sending chemicals which is called neurotransmitter.

4 Neil R. Carlson, *Fisiologi Perilaku Edisi kesebelas jilid I* (Jakarta: Penerbit Erlangga, 2012),33

5 Taufiq Pasiak, *Tuhan dalam Otak Manusia: Mewujudkan Kesehatan Spiritual Berdasarkan Neurosains*. (Bandung:Mizan,2012),207

B. Discussion

This spiritual neuroscience is part of neuroscience that focuses on the role of neurotransmitter is called by **operator of neurospiritual (ONS)**. These operators are prefrontal cortex, the area of the association, the limbic system and the autonomic nervous system.

Before explaining four parts of this operator of neurospiritual, it needs to explain that there is or not the relation between neuroscience and spirituality. How does spirituality is formed in the human? To prove the existence of a spiritual connection with neuroscience can be described using gene studies by *twin and adoption studies*. So the strong understanding is found with the brain, nervous and spirituality.

In every human civilization, the human beings realize themselves not as single reality. Every human get the reality that comes from two substances is difference that is called by realm (nature): physical and spiritual.⁶Talking about spiritual can not be broke up from the god.⁷ Because the god means an entity that has the character as “God Universal”. It is same as the understanding about the god, so every one has the different perception about the god.

Based on this universal perception, Physical natural objects are real, that meet the needs of the flesh. All of the experiences can be empirical or validated such as the look, feel, taste, smell or hear. The object that becomes natural part is physical subject which can change, die, break. It differs from spiritual nature that everything spiritual was immune to the laws of the physical universe. It pushes aside the change, death, and damage. Therefore, everything is made up as spiritual part which can not be broken, eternal, and does not expire.

When all of the civilizations are the god, they actualize from all that have the spiritual quality. It can say that the universal god represents the essence of every soul (spirit). The consequence is if something that consists of soul (spirit), it has not damaged (indestruktif), eternal, and does not end. The universal god as essence of soul must have this attribute well. Before there is the universal god, so nothing is created.⁸ God crosses all cultures, the existence of the first cause of everything. He is the creator of everything by himself and atoms and planets in all forms of life.

Before humans are influenced by the environment, more than 50 millions – connection have been prepared in the brain. this connection has the effect in physiological, emotional, attitude, and intellectual development.⁹ In the fact, gene has the very important role in influencing the human attitude. Scientists estimate 50 percent of genes that determine the child’s personality.¹⁰

With all these in mind, it is not possible that genes determine the role of spiritual or religious development of the individual? Based on the latest studies of genes, gene as the one that has a significant role. There are two methods that can be used to determine the effects of genes on behavior, namely *twin and adoption studies*. In adoption studies, scientists observe the differences and similarities between the behavior of individual genetic relationships into the section that appears. It is very effective to compare the results of this study with the adoption of twin studies the nature

6 Matthew Alper, *The “God” Part of The Brain* (United States of America: Rouge Press, 2008),3

7 In this spiritual context, which God is meant? Is He A God from Greek, Egypt, Norse, Yoruba, Aztec, Budha, Yahwe, Brahma, Krishna, Jesus, Amen-Re, or Allah? God in this terminology is so different with people who believe Him. So the first thing that need to clarify refers to what or which God?

8 Ibid. Matthew...3

9 Ibid. Matthew...160

10 M.Peyser and A.Underwood.”Shyness,Sadness,Curiosity,Joy. Is It Nature or Nurture? *Newsweek special* spring/summer edition,1998,62

of fraternity fraternal (*dizygotic or DZ*) versus identic (*monozygotic or MZ*).¹¹

Based on some evidence of twin studies above, it can not be denied again. The genes affect the religious behavior. This leads to the argument about the existence of a spiritual reality and existence of the function of the spiritual / religious, or in other words 'god' to be a part of the brain.¹²

The above explanation has been given instructions linkages between the brain, nerves, and spiritual. Meanwhile, it is known that the area of the brain is pretty much. Then, what part is responsible for the spiritual?

Through a study, it can be explained that there is a strong suspicion of a neurotransmitter relates to the spiritual. They are operator of neurospiritual (ONS), which includes: Prefrontal cortex, association areas, the limbic system and the autonomic nervous system.

Malfunction ONS¹³ will cause the human loses the meaning of life. The dream to be more colourful or specifically the meaning of life becomes the important distinguishing between the function of human brain and other types of creatures. Human tendency to search for 'meaning' is a sign of spirituality. The meaning of life emerged as a result of the rapid development in the front of the brain called the frontal lobe, especially the prefrontal cortex. Prefrontal cortex functions¹⁴ are decision making, future planning, and social judgement.

In addition to the above three functions, prefrontal cortex is the area of the front part of the frontal lobe biggest that contains five key areas to function neuropsychiatric (planning, organizing, problem solving, selective attention, personality) and motor function as well as mediating the intellectual function of higher (higher cognitive functions) that includes emotions and behavior. Here, the brain is involved in planning complex cognitive behaviors, personality expression, decision making and correct social behavior. The basic activity is regarded as the brain's orchestration of thoughts and actions in accordance with the objectives.¹⁵

To build the excellent personal character can start from prefrontal cortex area. Building the positive things is by the right way, so it can develop PFC development well. In other side,

11 As an example, imagination, has thousands of DZ twin divided when we was born and some part which emerged, 50 developed couples, have the similarity with the music and taste ability. While MZ twin is divided when we were born and the emerged part, 400 couples develop and have the same musical and taste ability. This proves that gen has the important role in deciding the ability in music and taste. Generally, the bigger DZ and MZ twin have the similarity in the particular congenital. It is as a proof of genetic contribution to congenital characteristic etiology. In more specific similarity and difference of religious activity 84 *identical* and *non-identical twin* at the back. There are 821 set twin which gather together. Waller and his colleague (1990) assume that the religious attitude and interest influence genetically. Another study said, Virginia Commonwealth University, 30.000 set twins-almost reach the twin study ambition- the researcher concludes 'although the religion transmission has been assumed as something multicultural, the research shows that the genetic factor plays a role of individual difference in some congenital religious characteristics. It is the same case as another researcher who states that "religion affiliation basically as a cultural, attitude and religious practice phenomenon and it is influenced by genetic factor

12 Ibid. Matthew...161

13 According to Newberg and D' Aquily the spiritual activity in the human's brain is done by some brain components which are together called as cognitive operator.

14 In psychology, cortex prefrontal has an executive function. Which is related to the ability to differentiate a contradictory thoughts, decide the good and bad, better or best, the same and different, the future consequences from today's activity, working to the a pointed purpose, result prediction, hope based on the activity, and social "control" (an ability to push and urge for something, if it is not pressed it can result on a result which cannot be accepted socially.)

15 Mia Amalia, *Masa Depan Kita pada Pre-Frontal Cortex*. <http://mia-qbooth.blogspot.co.id/2015/06/masa-depan-kita-pada-pre-frontal-cortex.html>. downloaded on November 15th 2016

personality and characteristic of the one can arise up well.

Association area is located in the surface of the brain. They are Visual Association Area (VAA) in occipital lobe, Attention Association Area (AAA) in the parietal lobe, the Orientation Association Area (OAA), and Verbal Conceptual Association Areas (VCAA) in Broca's area and Wernicke. Association area is responsible for the complex process to fill sensory to be special behavior. In this case, human consciousness is processed.

Limbic system is a set of interconnected brain structures and to form circuit that the mind function is motivation and emotion. This system covers some limbic cortex and a set of interconnected structures surrounding the nucleus of the forebrain.¹⁶ In addition to limbic cortex, the important part in this system is hippocampus and amygdala. This part is involved in learning and memory. Amygdala and some limbic cortex are specifically involved in emotion: feelings and emotional expression, emotional memory, and the introduction of signs of emotion in others.

Autonomic nervous system, with reference to the term autonomic that works based on internal interaction and none of direct intervention from another system. This system has the function for regulating the heartbeat. Breath, blood pressure, digestion, hormone secretion and other functions. It also usually serves unwittingly (automatic). The system of nerve autonomous has two subdivisions. They are

a. Sympathetic Division

It has the function when being triggered by the threat or challenge physical or psychological stimuli.

b. Parasympathetic Division

It has the function to restore the body to a state that is more calm, relaxed and this division is also in the running digestive function.¹⁷

This system is needed to appear mystical mind. The ritual can be trigger spiritual experiences by the autonomic nervous system influence on this. Their relationship with the more sophisticated part of the brain's cortex makes this system also has a significant influence on the activities of the brain, including creating emotion and mood.

In the research of Sains Louis University that people who minimally go to church once for a week will be at least having psychiatric disorders. According to Murthadha Mutatahari, worship and pray are inner healer. If having sport is importance for health, and if water is importance for being provided at home, so it is in line with the workshop and pray. If someone spends some time in a day to pray to the presence of God, then how his heart will be clean.¹⁸

Model or actualization of religiosity are difference, but the characters and some of the people who remind with religious experience such as a kind of dream and mystical experience. Even Abraham Maslow said that the mystical experience is the experience of human peak. Those who feel and experience the mystic feel satisfied with the world which he has an order of good, awesome and exciting. Nor has it been regarded worldwide as a center of crime, all look attractive,

16 Papez (1937) an expert on neuroanatomy in Neil R. Carlson, *Fisiologi Perilaku Edisi kesebelas jilid I*. (Jakarta: Penerbit Erlangga. 2012), 91

17 Rahmad Wedi Apriansyah Putra, *Fungsi dan Organisasi Otak*. <https://rahmadwediap.wordpress.com/2015/12/21/fungsi-dan-organisasi-otak/> downloaded on November 15th 2016

18 Gazi. *Psikologi Agama; Memahami Pengaruh Agama Terhadap Perilaku Manusia*, (Jakarta: Lembaga Peneliti UIN Syarif Hidayatullah, 2010), 69

soothing, and lovely.¹⁹

According to William James divides the characteristic of mystical experience into four levels: The first is mystical experiences are temporary. Secondly, the mystical experience is not able to be expressed in verbal language. Thirdly, that after being in mystical experience will feel really valuable lessons from the experience. The fourth is the mystical experience happens without conscious control.²⁰

Everything that is described above indicates the pursuit of happiness by religion, either religiosity or spirituality, as said by Abraham Maslow. Feelings of closeness itself to religiosity can bring a mystical experience that is difficult to express that he said is very different from previous experiences, even William James said religious experience is the arts of all experiences. The last is Zakiah says that religion is very powerful to make a peace of human psyche, as evidenced by the complaints that many western societies abandon religious life experienced many difficulties in mind and should consult mental health professionals.²¹ The research is also reinforced by the results of the study are surprising that the production of sedative in Europe exceeded five million and 160 thousand boxes of pills consumed. This indicates a high confusion with their life.²²

Based on explanation above, emphasizing the understanding that the spirituality is an important part of human dimension. Increasing the spirituality will soothe the soul. Traces of the spirituality can be biologically traceable with the work of brain and nerve system. Here is delegated by Operator of Neurospiritual (ONS). It means the intervention to ONS can soothe every one.

Learning is the process of mentality to change human behaviour. Prefrontal cortex very relates to three functions. They are decision making, future planning, social judgment. Learning that gives peace of mind must be supported with a good learning environment which includes physical and non-physical learning environment.

The behaviour of student that often get together with the spiritual program will be able to make the important decision in their life. If this section is damaged from some behaviors such as drug abuse and exposure to pornography is infected. They can not think clearly and also able to take the best decisions for themselves and their environment.

The future planning relates to intelligence of student for doing the best thing in their life later. To set out social value in social life is the requirement to be personally useful for others and in tight squeeze, those that is healthy brain can provide social considerations that are good for society, nation and state.

C. Closing

To prepare the student to be better in the future, the educator must understand the importance of neuroscience in learning. Knowing the neurospiritual operator will be easy to create the personality of student in order to help them to reach their future. Spiritual traces exist in the human brain and it can be utilized in the learning process. To focus on and to optimize the function of operator of neurospiritual will be able to give the learning which can help the student to find the learning style.

19 Ibid...72

20 Ibid...78

21 Yusak Burhanuddin, *Kesehatan Mental*, (Bandung: Penerbit Pustaka Setia, 1999), 10

22 Ishaq Husaini Kushari, *Alquran dan Tekanan Jiwa* (Jakarta: Sadra Press, 2012), 3

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