





PROCEEDINGS

The 4th International Conference on Sustainable Innovation (ICoSI) 2020

Cutting Edge Innovations for Sustainable Development Goals

Universitas Muhammadiyah Yogyakarta (Indonesia) October 13 - 14 2020

https://icosi.umy.ac.id/

Focal Conferences

- 📽 (ICPU) The 2nd International Conference on Pharmaceutical Updates
- 📽 (ICOMS) The 6th International Conference on Management Sciences
- 📽 (ICLAS) The 9th International Conference on Law and Society
- 📽 (ICMHS) The 4th International Conference Medical and Health Sciences
- 📽 (ICAF) The 6th International Conference for Accounting and Finance
- 📽 (ILEC) The 2nd International Language and Education Conference
- 📽 (ICONURS) The 2nd International Conference on Nursing
- (ICITAMEE) The 1st International Conference on Information Technology, Advanced Mechanical and Electrical Engineering
- 📽 (IConARD) International Conference on Agribusiness and Rural Development
- 📽 (ISHERSS) The 2nd International Symposium on Social Humanities Education and Religious Sciences
- 📽 (ICONPO) The 10th International Conference on Public Organization
- 📽 (DREAM) The 5th Dental Research and Exhibition Meeting
- 📽 (ICHA) The 5th International Conference on Hospital Administration
- 📽 (ICOSA) The 3rd International Conference on Sustainable Agriculture







Proceedings

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Preface by the Chairperson of the 4th ICoSI 2020



Dr. Yeni Rosilawati, S.IP. S.E., MM.

Assalamu'alaikum Wr. Wb.

All praise is due to Allah, the Almighty, on whom we depend for sustenance and guidance. Prayers and peace be upon our Prophet, Muhammad SAW, his family and all of his companions.

On behalf of the organizing committee, it is my pleasure and privilege to welcome the honourable guests, distinguished keynote & invited speakers, and all the participants.

With the main theme of "Cutting-Edge Innovations on Sustainable Development Goals (SDGs)", the 4th International Conference on Sustainable Innovation (ICoSI) 2020 serves as a forum to facilitate scholars, policy makers, practitioners, and other interested parties at all levels from Indonesia and abroad to present their novel ideas, promote cutting-edge research, and to expand collaboration network. The conference has about 1373 participants participating from more than 8 countries 4 continents all over the world, making this conference a truly international conference in spirit.

This multidisciplinary conference was first held in 2012 and has undertaken various changes and adopted to the current technological trends of our education system. From having this conference with just 175 participants back in 2012 we have come a long way in making the conference a huge success with more than 1373 participants participants in this two-day conference.

Formerly, this conference consisted of only 9 (nine) focal conferences. This year, there are 14 focal conferences from various disciplines, namely: 1) The 2nd International Conference on Pharmaceutical Updates (ICPU), 2) The 6th International Conference on Management Sciences



(ICoMS), 3) The 9th International Conference on Law and Society (ICLAS), 4) The 4th International Conference Medical and Health Sciences (ICMHS), 5) The 6th International Conference for Accounting and Finance (ICAF), 6) The 2nd International Language and Education Conference (ILEC), 7) The 2nd International Conference on Nursing (ICONURS), 8) The International Conference on Information Technology, Advanced Mechanical and Electrical Engineering (ICITAMEE), 9) The 2nd International Conference of Agribusiness and Rural Development (IConARD), 10) The 10th International Conference on Public Organization (ICONPO), 11) The 2nd International Symposium on Social Humanities Education and Religious Sciences (ISHERSS), 12) The 5th Dental Research and Exhibition Meeting (DREAM), 13) The International Conference on Sustainable Agriculture (ICoSA).

Accordingly, We are proud to announce that this year, the 4th ICoSI 2020 breaks the Museum Rekor-Dunia Indonesia (MURI) record as the Virtual Multidisciplinary Conference with the Largest Number of Area of Fields in Indonesia

In addition, this year, this conference holds special value since this is the first conference in the history of our university where the entire conference is taking place remotely on a digital platform through the use of advance technologies due to the Covid-19 Pandemic.

I would take this opportunity to express my highest respect to the Rector of Universitas Muhammadiyah Yogyakarta, Dr. Gunawan Budiyanto who gave approval and ensured the maximal support from all the faculty members of Universitas Muhammadiyah Yogyakarta (UMY) that made this event a big success. In addition, my appreciation goes to all the support teams who have provided their valuable support and advice from planning, designing and executing the program.

Let me conclude my speech by encouraging the delegates to participate with an increasing number in all the activities and discussions through the digital platforms for the next two days. I wish everyone a successful, safe, and fruitful conference.

Thank you!

Wassalamu'alaikum Wr. Wb.





Welcoming Remarks by the Rector of Universitas Muhammadiyah Yogyakarta



Assoc. Prof. Dr. Gunawan Budiyanto

Innovation is the beginning of the development of technology, and technology is a development machine that is expected to provide benefits to humans and provide the smallest possible impact on environmental quality. In the concept of sustainable development, development must improve the quality of human life without causing ecological damage and maintain the carrying capacity of natural resources.

International Conference on Sustainable Innovation (ICoSI) is an international conference which is an annual conference held by the University of Muhammadiyah Yogyakarta (UMY), Indonesia. In 2020 this raises the issue of "Cutting-Edge Innovations on Sustainable Development Goals." Therefore, on behalf of all UMY academics, I would like to congratulate you on joining the conference, hoping that during the Covid-19 Pandemic, we can still provide suggestions and frameworks for achieving sustainable development goals.



About The 4th International Conference on Sustainable Innovation (ICoSI) 2020

Cutting Edge Innovations for Sustainable Development Goals

The 2030 Agenda for Sustainable Development is enacted by the United Nations as a shared blueprint for peace and prosperity for people and the planet, now and into the future. It consists of strategies to improve health and education, reduce inequality, and spur economic growth while also conserving natures by 2030.

This year, however, at the first one-third of its timeline, the SDG Reports shows that the outbreak of COVID-19 did hinder the achievement, or at least decelerate the progress of achieving the 17 goals. In fact, according to the report, "some number of people suffering from food insecurity was on the rise and dramatic levels of inequality persisted in all regions. Change was still not happening at the speed or scale required", accordingly.

Therefore, in this event of pandemic, the quantity and quality of research, innovation, and more importantly multi-disciplinary collaboration are indispensable. Furthermore, there needs to be clear ends of those works. That is how those research are applicable and benefits directly to the society. That is how those research is incorporated as the drivers of policy making, and used practically in the society. Hence, the stakeholders especially the triple helix of higher education institution, government, and industry must be re-comprehended and supported to reach the common goal of the SGD.

International Conference on Sustainable Innovation (ICoSI) has been essentially attempting to strengthen this regard since its first establishment. One of the goals of ICoSI is to provide primarily a platform where scholars, practitioners, and government could grasp the development and trends of research. Hopefully, meeting these actors altogether would result in stronger collaboration, sophisticated and advantageous research, and brighter ideas for further research. Based on these reasoning, this year, the 4th ICoSI 2020 UMY is themed 'Cutting-edge Innovations for Sustainable Development Goals".

Improving from last year conference which brought nine focal conference, this year ICoSI 2020 UMY brings 14 disciplines, from social sciences, natural sciences, and humanities. ICoSI 2020 received as much as 1005 papers. The paper works submitted in ICoSI 2020 UMY will be published in Atlantis Proceedings, IOP Proceedings, National/International Journals, and ICoSI ISBN-indexed Proceedings.

Nevertheless, ICoSI believes that publication is only the beginning of research dissemination. The publications will enhance the chance of the research known by wider audience, and then used, applied, and incorporated at either system, institutional, or personal level of human lives.





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TRACK ECONOMICS, LAW, EDUCATION, SOCIAL, AND HUMANITIES





The Influence of Family Communication on Children's Social Competence at SD Ar-Rahman Full Day School Medan

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ABSTRACT

This study aims to see how the influence of family communication on children's social competence in SD Arrahman Full Day School Medan. The type of research used is quantitative and data collection tools used in this study are family communication questionnaire and social competency questionnaire that uses 4 answer criteria namely very often (SS), often (S), sometimes (KD), and very rarely (JS). The subjects in this research were all students consisting of grades 1 to grade VI SD Arrahman Full Day School Medan, amounting to 159 people. Analysis of the data used in this study with the moment product correlation test and t test using SPSS 21 for Windows. The results showed that the significance value was less than (0.05) ie 0.044 <0.05 so it can be said that there is a correlation between family communication with social competence in children.

Keywords: Family Communication, Social Competence, Full Day School

1. INTRODUCTION

Family is the first and foremost environment that can direct a child to face his life. The family also directs and prepares children to develop knowledge, abilities and creativity in dealing with a wider and more complex social environment. To have the ability to face the social environment, children's ability is needed.

Communication is a social event, an event that occurs when humans interact with other humans (Jalaluddin, 2008)

First time, communication skills are acquired by children through family. The form of communication that children have is also much influenced by the family through communication patterns that are formed within the family itself. Good communication between parets and children to the ability to interact with other people. The communication patterns that are formed in the family will shape the way children communicate with other people in their social environment. In a child's social environment, the role of a parent or caregiver is very important, when the child is two years old it is the parent or caregiver who fulfills the wishes of the child, and gradually the child begins to realize the influence of the role of other people in his life (Aslan & Gelbal, 2015).

In fact, now a days there is a decrease in the intensity of communication between family members. Each family member is busy with himself and his own business. Especially communication between parents and children is slowly starting to fade. Parents are busy with theor own work, as well as children are busy with personal affairs and their friends. This often resuts in a lack of control over the child's behavior.

The social experience of the child that he gets in the family is gradually growing. Children have started to interact with other people outside their family, and it is human nature to get to know other people. As stated in the Al-Qur'an Surah Al-hujarat, 13.

The meaning:

Hi people, indeed We created you from a man and a woman and made you nations and tribes so that you could know one another. Surely the most noble among



you in the sight of Allah is the most devout among you. Allah is All-knowing, All-Knowing.

The vers above affirms that Allah SWT has created humans into social creatures and through that social relationship Allah will see and differentiate humans based on their level of piety.

The social abilities of a children are a reflection of their social competence. Social competence is important for children to have because it can predict the success and failure of children in the future (Iswinarti, 2014).

Apart from being in the family, school is also a place for children to learn to develop their social abilities. School is a place where they experience social and emotional interactions with adults and their peers, which enable them and develop their social competences. Achievement in school at the age of children is influenced by their social competence, this will also affect their development in adolescence, therefore it is necessary to carry out intervention strategies at elementary age in order to achieve positive social development in the future (Okano, Jeon, Crandall, Powell, & Riley, 2019).

2. LITERATURE REVIEW

2.1. Family Communication

Communication is a way to connect with other people. Humans learn a lot through communication. Through human communication can be formed through how humans themselves translate the environmental message they receive (Jalaluddin, 2008). The form and mode of communication are also factors that can determine the success or failure of a communication process (Hapsari, 2013). According to Stewart L.Tubbs dan Sylvia Moss (1974) in (Jalaluddin, 2008) communication can be said to be effective if it causes five things, that is:

1.Understanding, which means careful acceptance of the contents of the stimuli as intended by the communicator

2.Pleasure, which means communication, there will be a close, warm and pleasant relationship between the two communicating parties.

3.Influencing attitude

4.Good social relations

5.Action. With the existence of persuasion in communication aimed at giving birth to the desired action.

Families can form a person's personality through communication, for example the way a mother communicates with her child as seen from the voice intonation when communicating with the child, the words issued by the parent to the child, the expression on the fce of the parent when communicating with the child. Everything will be seen, heard by the child which will be recorded and studied by the child throughout his life to form a personality in the child himself.

The purpose of communication activities is to convey messages or information to other parties, and the main is an attempt to influence other parties. Other parties in question are people who are intended to receive the message, as well as other parties who are sometimes not directed directly to receive the message (Saro, Ghofur, & Rakhim Syahida, 2019).

The function of family socialization is radically used when instilling values in children, passive socialization is developed by families when children choose to play and choose friends, and active socialization is carried out in introducing other family members and inviting the introduction of social values. Forms of verbal communication are more widely used when the family introduces something new or values, the introduction of nonverbal communication is shown to introduce symbols pf anger or pleasure to children (Wahyuti, 2016). Parents play an important role in shaping children's perceptions of the world through the way they communicate with their children. According to Wood 1995 in (Maximo et al., 2011) trhough the communication, people bring about ideas, values and identities that influence who they are and how they operate in relation to one another.

In addition, communication skills can also determine a person's success. For example, a teacher must have good communication skills in order to convey learning to students (Eko Febri Syahputra Siregar, 2019). Likewise with his relationship between parent and child, Parents must have good communication skills so that children who receive advice and children who have good communication skills will be happier.

2.2. Social Competence

Social competence is a complex set of skills that can be used in social situations and can also apply them to the social environment and can adapt to various situations (Kulikowska & Pokorski, 2008)

The ability of a child to adjust itself is a reflection of the social competence the child has. Children who are socially competent in one situation will tend to be competence is influenced by relationships with peers, siblings, parents, mass media, and many factors such as anger, aggression, anxiety and withdrawal (Pekdogan & Kanak, 2016)



In addition, children will also learn a lot through observation. As Bandura argues, learning will primarily occur through modeling, observation, modeling experiences and self-regulation. Bandura also said there are 4 main processes involved in modeling (Morrison & George, 2004). Modeling like this can be obtained by children trough education in schools. Education can provide behavioral changes in a more positive direction to children, both in children's attitudes in society and in the family (Akrim, Zainal, & Munawir, 2016).

- 1. Be considerate of others. In caring for others is based on the qualities of individual involvement, certain behaviors and the child's frame pf reference.
- 2. Choosing certain behaviors to reproduce. Choosing what behaviors to reproduce depends entirely on what grades students hold or what they see in others, who they admire and score highly. Behaviors that produce pleasure are more likely to be imitated, and on the other hand, unpleasant behavior will not be imitated, for example, if yo see a peer being punished, the behavior that has caused the unpleasant feeling will not be imitated
- 3. Remember the observed behaviors. Remembrance arises through recalling things that are observed because if a child cannot recall a behavior he will not be affected by it
- 4. Reproduce what is observed. Replication appears best when the child has the skills needed to perform a behavior and the opportunity to practice it.

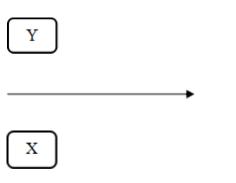
Through communication, parents can shape morals in children. The good morals shown by the children indicate an example of how parents communicate with their children (Widya, 2019). Children who have communication skills show that they have good morals (Fanreza, 2019). The way parents communicate with children will be observed by children continuously throughout their life so that children will imitate and make it a standard in their life when children communicate and socialize with their environment.

2.3. Hypothesis

The hypothesis in this study is that family communication has a positive influence on the social competence of children at SD Arr-Rahman Fullday School.

3. METHODS OF RESEARCH

This type of research used in this is quantitative research. In this study, researchers used a simple paradigm research design. Because, this research paradigm consists of one independent variable, family communication and the dependent variable, social competence. The simple paradigm be describe as:



Information:

X : Family communication

Y : Social Competence

The population in this study were students in grades IVI at SD Ar-rahman Full day School Medan with a total pf 159 students.

 Table 1. Population Distribution

Class	Total Students	
Ι	27	
II	18	
III	28	
IV	27	
V	28	
VI	31	
Total	159	

The data collection tools used in this study were a family communication questionnaire and a social competency questionnaire using 4 answer criteria: very often (SS), often (S), sometimes (KD), rarely (JS). The data analysis techniques in this study werw the correlation test and t-test. In this study, the correlation test used product moment correlation techniques. This correlation test aims to prove the influence of family communication on children's social competence. Correlation testing was carried out using SPSS 21. The ttest is used to determine wheter the effect on the dependent variable is determining (significant) or not.

4. RESULT AND ANALYSIS

The statistical test uses the help of Statistical Product and Service Solution (SPSS) using a significance level of 5%. The statistical testing stage is carried out through hypothesis testing which is carried out in two ways, the correlation test and the t-test.



4.1. Correlation test

This correlation test aims to prove the influence of family communication on social competence. With the criteria if the significance value <(0,05), the correlation between variable is declared significant and if an asterisk appears it means that the correlation is significant as big as the number marked with an asterisk.

	Family	Social
	communication	competence
Family	1	,823*
communication	6	,044
Pearson		
Correlation		
Sig. (2-tailed)		
N 1		
Social	,823*	1
competence	,823* ,044	6
Pearson	6	
Correlation		
Sig. (2-tailed)		
Ν		

*Correlation is significant at the 0,05 level (2-tailed)

From the research, it was found that the significance value $< \alpha$ (0,05) was 0,44, this means that the significance was 0,044<0,05, so it could be said that there was a correlation between the variable X (family communication) and Y (social competence).

4.2. T-test

The t-test is used to determine whether the effect of the independent variable has a partial effect on the dependent variable is determining (significant) or not. The t-test calculation results is 2,898

Method of decision making:

- 1. If the value of tcount > ttable, it can be said that there is an influence between family communication on social competence (it is and rejected accepted).
- 2. If the tcount < ttable, then it can be said that there is no influence between family communication on social competence (accepted and rejected).

It can be seen that the tcount for the family communication variable is 2.898 while the ttable is 2.571 (ttable is obtained from the ttable with 0.025 and df = n-1

= 6-1=5) can be seen in appendix 3f. Ho is rejected, Ha is accepted because tcount > ttable, is 2.898 > 2.571. So it can be concluded that there is an effect of family communication on children's sosial competence at SD Ar-Rahman Full day School.

The results showed that family communication affects social competence. This shows that effective communication by parents can form social competence in children, so that children who have good social competence will easily adapt to their environment, because they get support from family, especially from parents. One of the parental support is family communication through informative support. This support includes providing advice, guidance, suggestion or feedback obtained from others so that the individual can limit the problem and try to find a way out to solve the problem (Nasution, 2019)

How important the role of parents is to the ability of children's social competence. Communication by parents to children is an form of parent's attention and affection for children so that children have a feeling of security and comfort in the family. Parents are used as positive models for children in communication, especially in parenting, if parents are angry with negative words, then that is what will be modeled for the child. While communication with a good model based on strengths which focuses more on the potential of each child by developing communication that invites children to imagine, invites children to see positive things in children, so that they can channel them into positive energy (Kolucki & Lemish, 2011).

In family communication, parents and children tend to influence each other, but in family communication, parents will focus more on developing the competence of their children (Schrodt et al., 2009).

5. CONCLUSION

The conclusion from the results of this study is that there is an effect of family communication on children's social competence at SD Ar-Rahman Full day school. This is evidenced by the results of the correlation analysis, it can be seen that the significance value is less than (0.05), is 0.044 < 0.05, so it can be said that there is a correlation between family communication and children's social competence. Based on the results of the t-test calculation, the tcount is greater than the ttable, namely 2.898 >2.571, so that Ha is accepted and Ho is rejected. Thus the hypothesis which states that there is an effect of family communication on children's social competence at SD Ar-Rahman Full day School can be accepted.



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