

PARENT PROTECTIONS ON CHILDREN IN USE OF ICT AND INTERNET

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Abstract: Being able to access Information and Communication Technology (ICT) and the Internet is actually a good start for developing children's insights. Unfortunately, children are also threatened with a lot of bad information that floods the internet. It is through the internet that a variety of material containing pornography, violence, cyber bullying, gambling, false news and fraud is openly and unobstructed. Addiction to playing computer is suspected to trigger children to be lazy to learn to be lazy to do social activities. Addicted to playing computers can occur mainly because from the beginning parents do not make the rules of playing computer. The role and parental control in creating a child-friendly internet environment is very much needed, the use of the internet according to the age of the child deserves serious attention, the content accessed must be in accordance with the needs of the children.

Keywords: Technology, Internet, Computers, Children, Parents.

I. INTRODUCTION

Along with the development of science, the development of information technology is increasingly sophisticated and facilitates most of human work, every aspect of work has increased depending on information technology. Start to complete the use of computers, join in the development of information between computer devices. The creation of technology that allows two computers to be accessed through a network, until the discovery of the internet that is able to connect millions of computers spread across the world. The development of information technology is also growing rapidly because of the support of the internet, through the internet media community both young and old, small children connected, exchanging information, communicating and sharing resources. Human-to-human interaction must be replaced through digital technology and discussions do not realize this can be done interactions with the closest people around, for example between parents and children in their respective homes who each visited with their gadgets. Even though gadgets are not at all the primary needs of children. Childhood is the beginning of human life. The complexity of human life in childhood, especially early childhood, becomes the main foothold for human development in later stages of life, such as adolescence and adulthood. The complexity of the development of children at an early age requires a lot of stimulus until the development can reach an optimal point. Humans begin their life journey in infancy by learning what is around them. Babies begin to learn things around him through the experiences he experiences as part of the learning process of knowing life.

All aspects and components that influence human life from birth require a perfect combination of genetic and environmental factors to be able to provide the best learning experience. Digital technology is an important aspect in the factors that influence children's development. The inclusion of digital technology in a child's developmental life invades many stages of development that a child should achieve. Technology makes their lives faster (instant) and more efficient. Entertainment technologies such as television, internet, video games, iPod, iPad, and others have developed so rapidly that they make a family almost unaware of the significant impact and lifestyle changes on their families. Many aspects of child development must make adjustments to an environment that is already based on technology. For example relating to children's toys, children's relationships with parents, and the environment. In this situation, the role of parents is quite

significant as a regulator of what is allowed to influence the child's development and what is not. Based on a survey conducted by the Indonesian Internet Providers Association (APJII) in 2018 it was noted that the total number of internet users was 171.17 million from the total 264.16 million population of Indonesia. Achievement of internet use in children aged 5-9 reached 25.2%, 10-14 years reached 66.2%, and 15-19 years reached 91% [1]. This is quite surprising because during this time children are still difficult to protect themselves from the negative effects of internet use. When viewed from the level of education of internet users, the class of students also ranks higher compared to other professions.

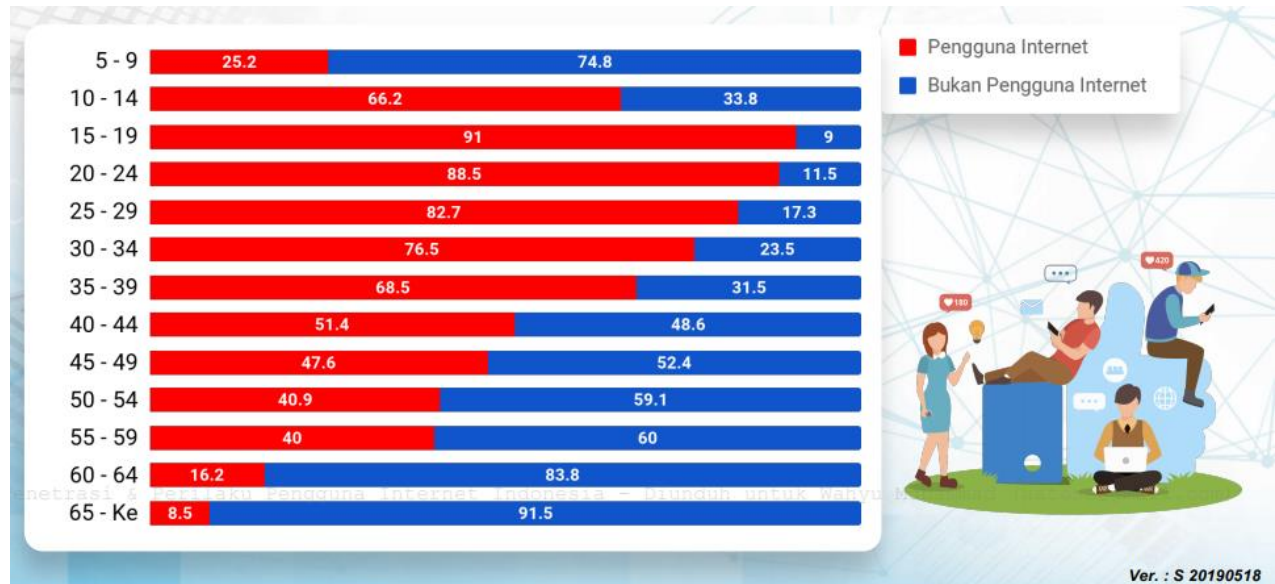


Figure 1 Internet user penetration 2018 based on age (%)

Source : APJII 2018 / Ver. : S 20190518

The high participation of students in contributing to the number of internet users in Indonesia in addition to the ease of getting internet facilities through various devices from parents such as smartphones, tablets and laptops, is also due to the attraction of social media that is increasingly mushrooming. Social media has become a trend and a must for teens to have at the moment. The lack of filtering of social media service providers and parents makes many underage children use social media. Social media is just one of the many facilities that have both positive and negative values of internet technology. Being able to access the internet is actually a good start for developing children's insights. Unfortunately, children are also threatened with a lot of bad information that floods the internet. It is through the internet that various material containing pornography, violence, gambling and fraud is sold openly and without obstacles. Addiction to playing computer also triggers children to be lazy to be lazy to do social activities. Addicted to playing computer can occur mainly because from the beginning parents did not make rules to play computer. The importance of the role of parents, teaching staff, community, and government in creating a friendly internet environment for children is very necessary. Therefore this study aims to discuss and provide an overview of the impacts that will be given by the use of technology and the internet both positive and negative impacts, the use of the internet in accordance with age restrictions, and the role of parents in the digital world. It is hoped that this research can encourage and provide insight to parents to always protect their children from the dangers of the technology world and be able to benefit from technology.

II. LITERATURE REVIEW

According to research conducted by Tria Puspita Sari and Amy Asma Mitsalia about the Effect of Technology Use on Social Personality of Pre-School Age Children with a sample of student guardians from TKIT AL-Mukmin. This study used 38 respondents consisting of guardians of TKIT Al-Mukmin students with questionnaire and interview techniques using chi square analysis, then Odd Ratio calculations were performed to find out how much influence. The calculation results show that the calculated X^2 value is 4,194, the X^2 table value is 3,481 and the p value is 0.041 with a degree of freedom (dk) = 1 and a significance level (α) of 0.05. With a basis of $4,941 > 3,481$ or $0.041 < 0.05$. Odd Ratio results show 6.00 with the meaning that technology has a 6x greater positive effect. The results showed that there was a positive

influence between the use of technology and personal social pre-school age children in TKIT Al Mukmin when accompanied by wise use and parental guidance [2].

Continued research conducted by Novi Widiastuti and Dewi Safitri Elshap on Parenting Parents as an Effort to Grow Responsibility Attitudes in Children in Using Communication and Internet Technology. This research was conducted with a survey of parents in the city of Cimahi who have children from the level of Elementary School, Middle School, and High School. The results of this study are that correct parenting will be able to encourage children's sense of responsibility in using today's technology [3]. Prevention is needed by parents so that their children are not involved in cyberspace malignancies from an early age. Prevention can be done by actively controlling the internet activity in children [4]. Subsequent research was conducted by Sara Nellisan and Jan Van Den Bulk from the social science faculty of the Belgian Leuven university on Active Guidance on the Use of Parental Media by Children and Conflict in Families. This study used a cross-sectional survey conducted among 187 pairs of parents and children in Flanders, Belgium. This research concludes that parents must have extensive knowledge about ICT and the internet, so that they can guide and direct their children on how to connect and use the latest technology such as smartphones, tablets and social media applications. [5].

III. RESULT AND DISCUSSION

1. Positive Impact

Information and Communication Technology as part of science and technology in general are all technologies related to the collection, collection, processing, storage, distribution and presentation of information. With the information and communication technology can make it easier for us to learn and get the information we need from anywhere, anytime, and from anyone. In the world of education the development of information technology is starting to have a positive impact because with the development of information technology the world of education has begun to show significant changes [6]. Many things are felt differently and changed compared to the way that developed before. Nowadays distance and time are not a significant problem to gain knowledge, various applications are created to facilitate it. The positive impacts of the internet include :

- Children can use educational software such as basic knowledge reading, numeracy, history, geography, and so on. In addition, this educational tool is now also mixed with elements of entertainment in accordance with the material, so that the child likes it more.
- Add insight into children by building relationships, increasing friends without having to be limited in distance and time.
- Can facilitate children in finding and knowing the latest information so as to stimulate children's creativity.
- Technology makes children more responsive to the development of information technology.
- Being a solution for parents to deal with children who are bored in learning with a more pleasant atmosphere.

It is time, the use of the internet in the learning process is carried out and supported by all education stakeholders. The government must also pay more attention so that teachers are aware of how much learning facilities can be obtained through the use of the internet. Parents also need to understand, the internet is not only having a negative impact on children. On the other side, the vast potential of the internet is waiting to be known and exploited. So that the learning process for children can be more creative.

2. Negative Impact

The large and growing number of internet users (netter) has embodied internet culture. With netizens who come from all ages and groups of people, making the internet has a great influence. The internet has a great influence on science and worldview. By utilizing search engines like Google, netizens around the world can easily access the internet to get various kinds of information. Compared to books and libraries, the internet symbolizes the dissemination and knowledge of information and data to the extreme. With this development, namely the ease of children or adolescents accessing the internet creates its own concerns for parents. Because there is a lot of content on the internet that is inappropriate for children or adolescents to access, such as pornographic content, cruelty and sadism, excessive internet addiction that can cause both psychological and mental disorders, and so on [7]. The negative impacts of the internet include:

- Addicted to the internet, using the internet excessively is also not good for us. Physical and spiritual condition will be disrupted by excessive internet access, such as the case of a game whiz who died from days of playing online games that cause heart attacks, or someone who has been an internet maniac, who accesses the internet every day for hours without interruption- over time will make him ostracized by the surrounding environment because of lack of socialization and lack of time to connect with others. Because he was busy using the internet so he forgot the time.
- Cyber bullying, with wider internet access and very large users, technology can hurt yourself if used for negative purposes. Not a few children who are victims of abuse on the internet. This term is known as cyber bullying, which is anti-social behavior that harasses or demeans a person, mostly affecting children and adolescents, whether done online or by cell phone. Cyber bullying utilizes SMS messages, e-mail, instant messaging (IM), blogs, social networking sites, or web pages to harass, humiliate and intimidate children. The forms are various, such as spreading false issues, posting embarrassing photos, sexual harassment, threats to acts that cause extortion. Some cases abroad, many victims of cyber bullying have ended up committing suicide.
- The number of frauds that occur on the internet, such as buying and selling fraud, identity fraud, and even fraud that leads to sexual harassment such as cases that occur back in Indonesia that occur in adolescents who are deceived by their Facebook friends that lead to sexual harassment in the form of rape and even murder.
- The amount of dangerous content on the internet, such as pornographic content, gore (sadism or cruelty), and other dangerous content that is not appropriate for children to access.

Besides the negative impacts caused by the social development of the child which will be hampered, the child will stay away from social life and will be difficult to interact with his age community, because the child tends to be engrossed in his own life, because the internet is considered biased to provide everything, Not only varied information but also friendship that is so fun. In addition to disrupted social development, the threat of information that they were not supposed to get also had an extraordinary impact on the child's mentality. Unattended and controlled access will be dangerous for children and young people with a lot of dangerous content that is easily found on the internet. For this reason parents are required to be active in supervising the internet network used by their children, so that the internet does not cause adverse effects on the development of children and adolescents.

3. Introducing The Internet By Age

In the stage of the introduction of the internet to children adapted to the age of the child, so that in the use of the internet the child will not deviate from the provisions that should be obeyed [8]. Below are the stages of internet recognition based on age in children, namely :

➤ Ages 2 - 4 Years

In this age, children begin to interact with computers must be accompanied by parents or adults. Many activities and sites that are suitable for this age, surfing with parents is the best thing. This is not just a matter of child safety, but also to ensure that the child can get a pleasant experience while strengthening the emotional bond between the child and parents. From the age of the third age, some children will benefit if they get more freedom to explore. That does not mean they can use the internet freely.

➤ Ages 5 - 7 Years

Children begin to be interested in doing their own exploration. Even so, the role of parents is still very important to assist when children use the Internet. In this age, parents should consider giving site restrictions that may be visited, based on previous parental observations. To make this easier, parents can advise their children to make a directory or search engine specifically for children as a site that must be opened when first connected to the Internet. Children will get positive experiences if they succeed in increasing their new discoveries on the Internet. The main problem here is not centered on how to avoid negative sites, but how to keep children free to explore the Internet and visit a number of useful sites without frustration or discomfort.

➤ Ages 8 - 10 Years

During this period, children begin to look for information and social life outside their family. This is the time when friendship and playgroup factors have a significant influence on a child's life. At this age the child also begins to ask for

more freedom from parents. Children must be encouraged to do their own exploration, even though it is meaningless without the participation of parents. Place the computer in an easily monitored room, such as in a family room. This allows the child to freely explore the Internet, but he is not alone. Also consider using filter software, installing a child-specific search engine as a site to visit or using a browser specifically designed for children. At this time, the focus of parents is not on what they do on the Internet, but how long they use the Internet.

➤ **Ages 11 - 14 Years**

This is when children begin to actively live their social lives. For those who use the Internet, most of them will be interested in online chat (chat). Reemphasize the basic agreement about using the Internet at home, that is, not giving out any personal data, exchanging photos or having face-to-face meetings with someone you have just met through the Internet, without the knowledge and / or parental consent. At this age children must understand that the fact that someone on the Internet may not be as imagined or described. Children at this age also have the time to start to be interested in matters relating to sexuality. It is natural for a child to become interested and curious about the opposite sex. They will try to explore to fulfill their sense of interest and curiosity. During this period, parents must be aware of what their children are doing. Parents do not have to be in the same room as the child when the child is using the Internet. But the child must know that the parent has the right to go in and out of the room at any time and ask what the child is doing while online.

4. The Role of Parents in the Digital Age

The digital age is a term used in the emergence of digital, internet networks, or more specifically information technology. The digital age is characterized by technology, where an increase in the speed and flow of knowledge changes in the economy and people's lives. Parents who are part of the information society cannot deny that children in the digital age are never separated from objects related to technology. New technology is one of the most visible indicators of the emergence of a new age, and also to signify the arrival of the information society. The information technology revolution has caused the spread of communication technology and this can inspire the creation of new societies. The presence of digital technology in the form of tablets has made children, even toddlers familiar with the media which is the development of this computer and mobile combination. The digital age makes it easy for anyone to access information easily, anytime and anywhere. This applies to anyone, including children. Children of the digital generation era are very quickly adapting to the development of information technology. Therefore parents face many challenges in raising and caring for children in an era like now. Characters cannot be taught with a theoretical approach to children, but must be taught with behaviors and examples of actions. How could parents teach children not to be addicted to gadgets if parents themselves even more often pay attention to the gadget rather than spending quality time with family. However the role of parents is very important in this regard.

Parenting parents to their children is the solution to all these problems. The family is the child's first school before he interacts with the social environment outside his home. In the family, the child is formed to have immunity against negative influences. Not to shape the child to be free from negative influences, because it feels so naive, because even parents use gadgets in their daily lives [9]. Very unlikely in the digital age, the child is one hundred percent free from the adverse effects of technological development. So, what is very realistic is to prepare children to be able to resist and stay away from the negative influences that approach them. Almost all children have understood the use of gadgets, as if parents provide opportunities to plunge children into facilitating gadgets along with ease of access. Parents certainly have to take responsibility. If the child is not supervised and accompanied, then doing things that are not desirable, for example accessing pornographic sites, which will damage the child's brain. Early childhood is a great copycat with the innocence of a child who is easily directed toward negative things. Naturally, parents provide extra assistance because early age is the age of imitation, so parents are the 'model model' for their children. The more often children see their parents engrossed with gadgets, the greater their interest in gadgets. Therefore, the family spearheads the socio-emotional development. As parents, you should not be quiet in watching the internet use by children. Parental involvement in this case is an important point for children's development [3]. With the supervision of the child's parents can be more guided towards a more positive direction. The things that need to be considered by parents are as follows :

➤ **Become a Gateway of Technology**

Learn to use the latest technology. Technology develops rapidly every day, and the use of each of the latest technologies is different from what we have had before. As parents, it is compulsory to learn about the latest devices or internet sites that have just emerged, so that they can always control every technology that is presented to the child.

➤ **Accommodate Children's Pleasure**

If the child already enjoys cyberspace, then involve the child with other activities that support. Buy knowledge books that are related so that children are able to increase their creativity. Engage in other social activities so that children have other activities besides sailing in cyberspace.

➤ **Put The Computer In A Public Space**

If possible, place the computer in a part of the house that is easily seen together, for example the family room. Avoid placing computers with internet access in a child's private room. Ask a few questions about internet access and the benefits gained. Encourage children to travel in spare time to more freely dialogue around the internet. Once upon a time, check what appears on the monitor screen, or what is accessed by children to the internet. Check the temporary internet files, recycle bin and cookies websites that you have visited.

➤ **Limiting Computer Usage Time and Internet Access**

Make a schedule of internet use for our children in accordance with the stage of age development. Also limit the length of time internet access for school children is around 30-60 minutes each time. On school days, remind children to access the internet, mainly to facilitate the completion of school work, such as homework or other assignments. On weekends or Sundays, usually older children may take longer to access. Give the opportunity to access the internet properly. Remind that they do not become addictive and excessive in accessing the internet. By way of reminding them in an orderly manner, giving direction and assistance, will make them more responsible, and act independently in using computers and accessing the internet.

➤ **Computer Usage and Internet Access Assistance**

We accompany and accompany as needed, when they surf. Surf with children as often as possible and help them to sort out what kind of information is useful and appropriate for them. Avoid unnecessary communication with sites that are not yet worth visiting. Give them a chance to show us what they have learned or something they like.

➤ **Internet Bandwidth Allocation Limitation**

Limit children from accessing the internet with a volume location of around 100MB per week or month. This depends on the results of observation and assistance and in harmony with the interests and hobbies of children.

➤ **Embed Islamic Values**

Religion is the main stronghold to prevent children from actions that are not commendable. Teach children that bad deeds will get anger from Allah Subhanahu Wa Ta'ala.

➤ **Openness of Communication**

Don't limit children's internet access opportunities only to certain websites and certain chat rooms blindly. Discuss in advance with the children what they need and where their interests and talents will be developed. Also explain all the limitations faced by the family, including financially so that internet access should not be done all the time for all things.

IV. CONCLUSION

Along with the development of science, the development of Technology and Information, especially the internet, we also cannot deny. Apart from the positive side resulting from technological advances also contain negative sides that we should be aware of. As parents, it has become an obligation to guide and guide children in the use of these technologies. Internet technology can be built into a safe place for learning and playing, and also a healthy arena for discourse. Many internet content references can be used as learning materials and examples of a better life, if we selectively collect them. As parents, they are obliged to instill religious values in children in controlling the use of the internet so as to avoid the negative side, then parents also learn the latest devices or internet sites that have just emerged, so that they can always control each technology that is presented to children. Parents must be closer to the teacher so they can continue to monitor or ask for an assessment of the child's attitude while at school and make good educational relationships with other parents so they can share in children's education, or other parents can also supervise children in their daily lives.

REFERENCES

- [1] APJII, "PENETRASI & PROFIL PERILAKU PENGGUNA INTERNET INDONESIA," Indonesia, 2018.
- [2] T. P. Sari and A. A. Mitsalia, "PENGARUH PENGGUNAAN GADGET TERHADAP PERSONAL SOSIAL THE EFFECT OF THE USE OF GADGETS TO PERSONAL SOCIAL (TKIT) OF AL MUKMIN," vol. 13, pp. 72–78, 2016.
- [3] Novi Widiastuti & Dewi Safitri Elshap, "POLA ASUH ORANG TUA SEBAGAI UPAYA MENUMBUHKAN SIKAP TANGGUNG JAWAB PADA ANAK DALAM MENGGUNAKAN TEKNOLOGI KOMUNIKASI," J. Ilm. UPT P2M STKIP Siliwangi, vol. 2, no. 2, p. 12, 2017.
- [4] Á. David, "The Relationship between Parental Control and High-Risk Internet Behaviours in Adolescence," 2018.
- [5] S. Nelissen and J. Van Den Bulck, "When digital natives instruct digital immigrants : active guidance of parental media use by children and conflict in the family," vol. 4462, no. February, 2017.
- [6] N. Kucirkova, K. Littleton, and A. Kyparissiadis, "The influence of children ' s gender and age on children ' s use of digital media at home," vol. 00, no. 00, 2017.
- [7] J. E. Palar, F. Onibala, and W. Oroh, "HUBUNGAN PERAN KELUARGA DALAM MENGHINDARI DAMPAK NEGATIF PENGGUNAAN GADGET PADA ANAK DENGAN PERILAKU ANAK DALAM PENGGUNAAN GADGET DI DESA KIAWA 2 BARAT KECAMATAN KAWANGKOAN UTARA," ejournal keperawatan (e-Kp), vol. 6, no. 2, p. 8, 2018.
- [8] E. M. Husni and A. Fatulloh, "Kategorisasi Pengguna Internet di Kalangan Pelajar SD dan SMP Menggunakan Metode Twostep Cluster," pp. 6–16, 2016.
- [9] L. D. and A. Rudolfa, "The Role of Parents for Developing Digital Literacy of 0-5 Year Olds," IGIGLOBAL, p. 10, 2018.