

# Behavioral Changes of Children Intelligence for the Extreme Affection of Parents

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**Abstract:** A nation's most valuable resource is its children. In the future, a nation will be controlled in the same way that a kid will develop. The majority of parent's lack expertise about how to help their children develop a positive outlook. We concluded in our study by analyzing the association between parental excessive affection and the development of children's intelligence. Through the use of a questionnaire, information was gathered from 531 families. Whereas 43 percent of parents show excessive affection to their children, while 45 percent lavish proper affection. On the other hand, in our study, 48 percent of the children had an IQ score of less than 49. We have identified the alterations in their child's brain as a result of their parents' blind affection and have also identified remedies to the problem. We analyzed it so that the growth of children's intelligence is not hampered by their parents' excessive affection and that the parents and children enjoy a close relationship with their parents.

**Index Terms:** Extreme affection, Mental health, Children intelligence, Behavioral changes, Parental care

## 1. Introduction

Today's children are the future of tomorrow [1,2]. The main objective of this paper is to ensure that the youngster has a brighter future. Many children are maturing into actual people as a result of their parents' positive actions [3]. Similarly, a lack of sufficient parental care causes many children to drop out early [4,5,6,7]. Therefore, it may be claimed that proper parental care is the only way for a child to have a healthy life [8], but excess affection is a curse for a child. Childhood is a phase in a person's life that is reflected in the future exactly as he was raised at that moment [9]. At this stage, a little mental issue has become a lifelong issue. Data science is a growing field of study in today's world [10]. A survey was used to gather information on the parents' level of affection and the child's level of intelligence. Results have been presented by analyzing that information and ways to get rid of this problem have been found. This paper is a wonderful example of the combination of mental health and data science. This paper focuses on how much more affection is helpful in developing a child's intellect. There are two types of questionnaires that have been created. The child's IQ is determined by one questionnaire, while parental caring is determined by the other. The data from these two questionnaires are analyzed and a conclusion is reached. Every parent has a responsibility to better their children's future [11,12]. Every parent will be able to raise their children properly based on our findings. The country's future is tied to the future of the child [13,14]. Many children are being lost early as a result of extreme affection, and gathering statistics is not a difficult process. Yet such an analysis has never been organized before. Hopefully, our paper will pave the way for all parents to have a more positive attitude toward their children. The focuses of this paper are:

- We determined the level of kid intelligence and parental care by asking questions and harmonizing them.
- The development of the frontal lobe during adolescence does not occur as a result of the excessive affection of parents. It has long-term effects. The various effects on the child's brain are a major topic of discussion in this paper.
- We came up with a novel technique to solve the problem. Many novel approaches to childrearing have been proposed.
- All in all, there has been an epoch-making integration of mental health with data science. This is an inexhaustible contribution to modern science.

## 2. Literature Review

Adolescents receive positive regard from their parents in terms of promoting academic achievement. They suffer from unpleasant self-feelings due to the negligence of their parents if they do not achieve proper achievement. The child's failure is considered by the parents as humiliating and a compulsory additional investment in the future. Such a situation leads to more depression in adolescents and increases their stress. Children seem to get more love than usual when parents' expectations are met. While the conditional attitude of the parents may seem positive for the future of the children, the adolescents put extra pressure on their brains to fulfill their desired achievement. As a result, the development of intelligence in many teenagers is hampered. Parents need to refrain from negatively evaluating their children's outcomes and encourage them for the future [15]. High academic pressure from parents and school has a negative implement on the physical, psychological, and intellectual development of school-going students. Chinese students have to endure a lot of pressure from parents at home and teachers at school to achieve higher academic achievement. Chinese children are unable to balance other daily experiences of life with educational objectives due to the double pressure of teachers and parents. Excessive family and surrounding pressures to achieve the desired result turn children into less intelligent inert objects. Although high expectations from students are beneficial for their future, due to extra stress students are deprived of blissful, imaginative, and inquisitive childhood. It is very important to treat students with respect as basic people keeping in mind the influence of family and school so that they get autonomy in career building [16]. There are various misconceptions among human beings about the connection between breastfeeding and the consequences of breastfeeding. These thoughts avoid the prediction of observational studies on child intelligence. Breastfeeding is more common in women with high IQ and education. At the identical time, women who aren't smokers and from appropriate family surroundings are much more likely to breastfeed their infants. The mother's IQ, educational qualifications, and family surroundings are liable for the reasons for breastfeeding. It goes without saying that breast milk has no role in the improvement of children's intelligence. Breastfeeding is beneficial for both children and mothers, but children are less likely to develop intelligence through breast milk [17]. Children's chaotic eating habits and weight gain are particularly affected by parents' own eating habits and practices. Children's food demand changes on account of the family environment. Parents contemplate extra control over food intake to ensure a healthy and nutritious diet for their children. Naturally, children are more enticed to salty and sweet-tasting food. Conversely, they are reluctant to eat sour and bitter foods. Despite the reluctance of children, parents insist on eating healthy foods and refraining from junk food. Thereby, childhood obesity increases. Keeping in mind the improvement of children's diet and obesity, parents need to find alternatives to forced feeding and additional control over eating habits through a befitting family environment [18]. Parental faith systems play a significant role in obsessing children's mental health and behavior. Conversely, the mental health of the child has nothing to do with the mental intelligence of the parents. Boys' internal problems and depressive symptoms depend on the parents' fixed intelligence, but in the case of girls, they look different. Negative assessment of children and tendency to social anxiety are more observed among parents of fixed mentality. In the absence of proper faith systems, parents do not precisely observe their children's mental health. Internal distress of teenagers is exacerbated by their parents' beliefs about intellectual weakness or intelligence mentality. Parents need to dispense a positive attitude towards their individual independence and academic achievement in the development of the mental health and intelligence of young people [19]. The socio-economic status of the parents strongly influences the mental intelligence of the children. Socio-economic conditions include the monthly income of the parents and the quality of living. From childhood to adulthood, a kind of experience is created with the financial condition of the parents, which is related to their emotional intelligence. Financially indigent parents cannot ensure adequate nutritional needs and good health for their children. The mental and physical development of children is hampered due to a lack of family finances. In the past, children who did not perform well in school were considered mentally unstable. Many children drop out of school due to the economic and social conditions of their parents. Thereby, children become emotionally depressed. The development of the socioeconomic situation of the parents is very momentous to enhance the mental intelligence and self-confidence of the children [20]. Through Literature Review we have presented our research more scientifically by taking ideas. Which strengthens the mental development of children in the future.

### 3. Propose Model

There are many boys and girls who can't move on their own when they grow up. They have to rely on their parents before taking any action. Even if they face a sudden danger on the way, they cannot deal with it. Events that are constantly happening before our eyes. This research has been done to find a way out of this problem. Parents should accompany their children but excessive affection and care overwhelm their children. As a result, the child becomes dependent. It is from this idea that the model has been introduced and through analysis and research we have concluded.

The most critical part of the paper is the planning. According to the earlier strategy, the subject for the paper is chosen. Thereafter the population on which the study is conducted is selected.

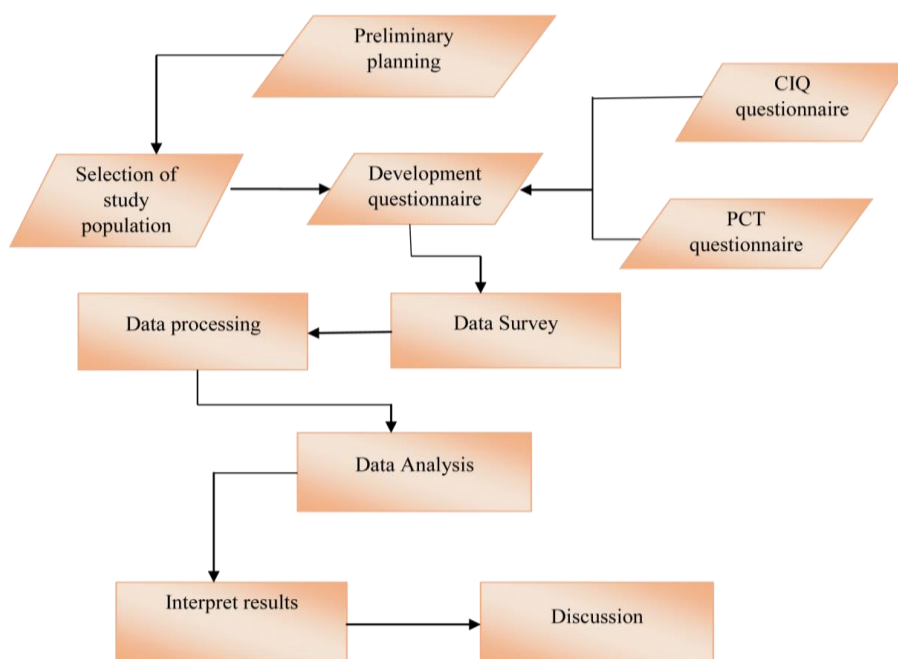


Fig. 1. The proposed model of this analysis

Then, depending on the study population, two types of questionnaires are created. Data is collected by surveying the study population through this questionnaire. For ease of analysis, all of the acquired data is consolidated in Excel and the data is sorted according to a certain structure. The subsequent data is analyzed, and a result is reached. The discussion section contains solutions to the topic. This model gives us an overall idea of the analysis process. Through which the structure of the whole paper can be easily understood.

### 4. Material and Method

Data collection is a major aspect of this study. The study has to go through a specific plan. According to this plan, the data is collected and analyzed. We randomly select some families and collect information. All the data has been collected qualitatively and subsequently converted into quantitative data. This has helped us to present analyses and diagrams. There is no substitute for qualitative questionnaires to understand the relationship between parents and children. We have brought all those questions under a specific mark and the mark has been given based on their answers.

#### 4.1. Population selection and development questionnaire

Since the study is about children's mental health, it includes both the child and the parents. The main purpose of this paper is to know about the development of children's intelligence as well as their parents' ideas about children. The right steps have been taken accordingly. A total of 561 families were chosen at random. Where each family has at least one child aged 7-14 years (both male and female). A question paper is prepared for the IQ test of a total of 255 boys and 276 girls which is named after Children Intelligence Quotient (CIQ). A special questionnaire is also prepared to understand the level of parental affection towards children which is named after Parents Care Test (PCT). The questions of the questionnaire have been collected from a few specialties' professors and different reputed websites. The value of each question paper is set at 100 and this marking is done based on the answers of parents and children. The marks are arranged in 3 categories (low: <49, Perfect: 50-80, Extreme: >80). All of the questions have been carefully chosen, resulting in questionnaires that are completely convinced and realistic.

#### 4.2. Data processing and Analytical Methods

Data is gathered from both parents and children and compiled in an Excel sheet. IQ tests were administered to a total of 255 male's children and 276 girls' children (total n=531). A list of how many children and parents got the number is prepared.

Table 1. Representation of the number of different levels

Questionnaire type	Number of Population		
	LOW (<49)	PERFECT (50-80)	EXTREME (>80)
CIQ	202	249	80
PCT	64	239	228
CIQ BOY	89	117	49
CIQ GIRL	113	133	30
PCT About BOY	41	117	97
PCT About GIRL	22	121	133

The information gathered is transformed into percentages. This gives the advantage in the analysis process. Many graphical views are provided through Excel for expressing these percentages. The analysis is performed through this graphical view (bar diagram, column diagram).

### 5. Results

There is indeed a strong link between parental care and children's intellectual growth [21]. Figure 2 demonstrates that 38 percent, 47 percent, and 15 percent of children performed on the low, perfect, and extreme levels in CIQ tests, respectively.

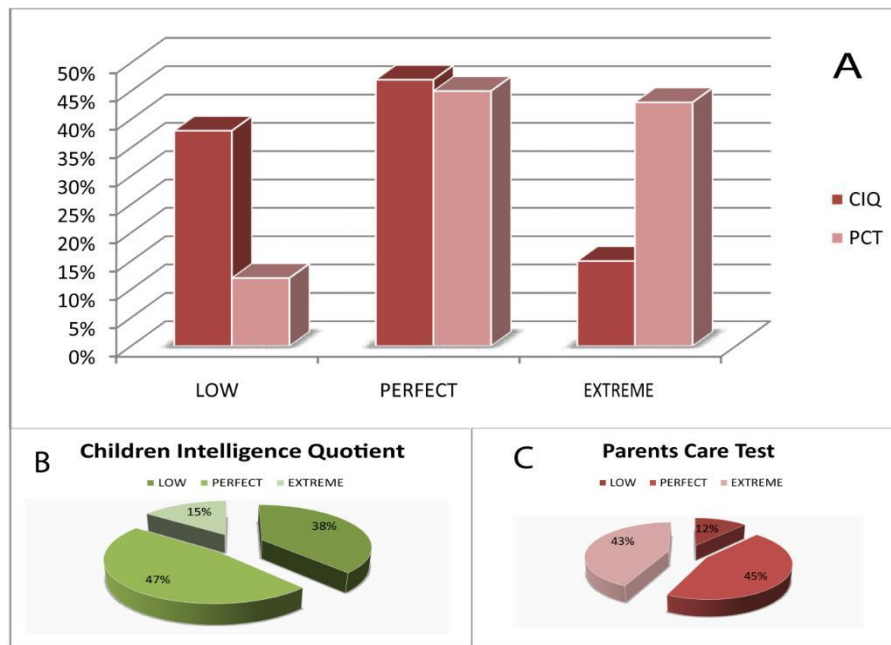


Fig. 2. Percentage of children's and parent's marks in different questionnaire

Conversely, the percentage of parents considering low, perfect, and extreme level care is 12, 45, and 43 respectively. CIQ tests exhibit the exponent of children's intelligence. At the extreme level of parental affection, the improvement of children's intelligence is less, and at the perfect and lower level of parental care, children's intelligence is comparatively increased. The amount of PCT and CIQ tests is the highest at the Perfect stage. The progression of children's intelligence develops properly only when parents provide moderate or perfect care to their children.

Children's intelligence varies due to excess care or lack of affection. B and C show the percentage of children and parents who got different marks respectively.

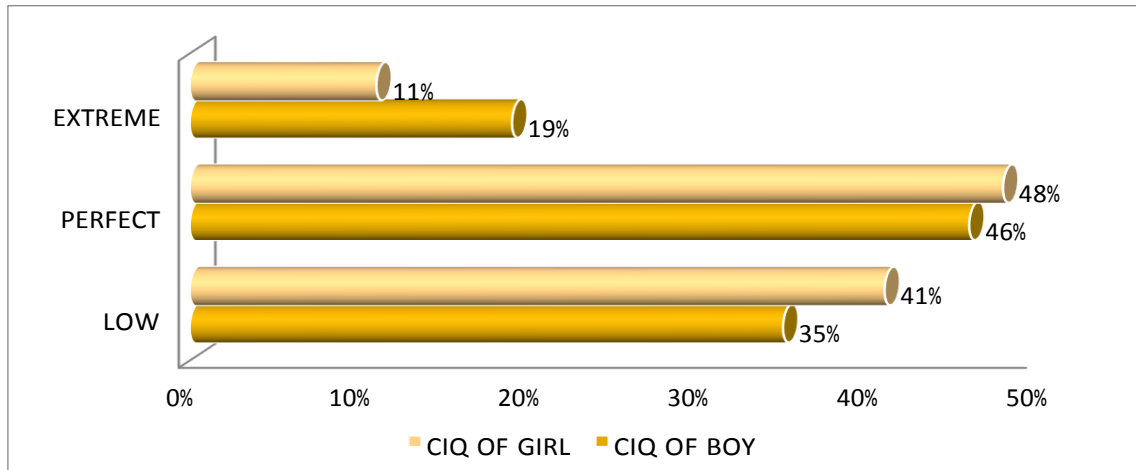


Fig. 3. Difference between the intelligence of girls and boys

There are differences in the intelligence of boys and girls due to the family environment [22]. Figure 3 demonstrates that 41 percent, 48 percent, and 11 percent of girls got on low, perfect, and extreme marks in CIQ tests, respectively. On the other hand, 35 percent, 47 percent, and 19 percent of boys got on low, perfect, and extreme marks in CIQ exams, respectively. Figure 3 show that 19% of boys got extreme level marks in their IQ test, while only 11% of girls. 48% of girls and 46% of boys have the perfect level of intelligence. The position of girls in lower level IQ is 6% less than that of boys. Considering the overall aspect, it can be said that the development of intelligence is more observed in boys than in girls. Many family and social situations play a role in controlling this.

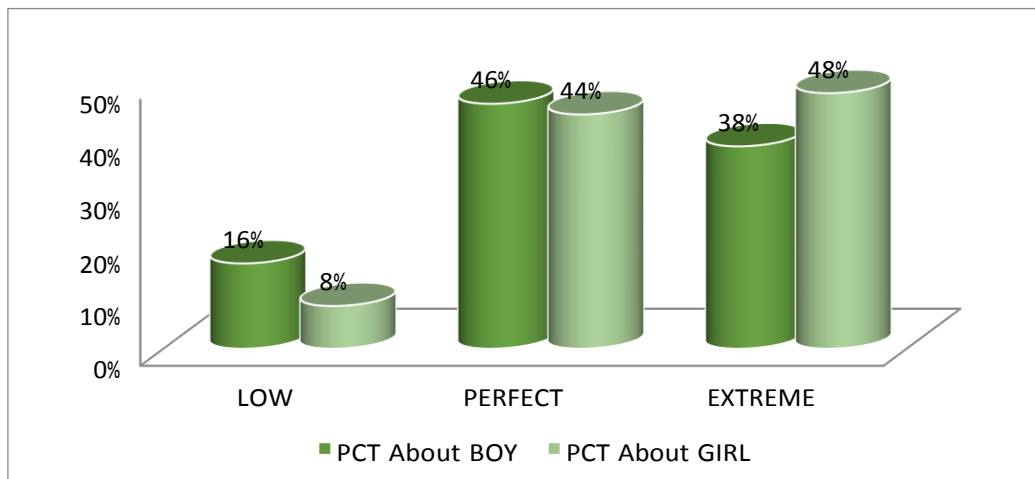


Fig. 4. Difference between parental affection among the girl children and boy children

From a family and social point of view, every parent does not take proper care of their children. Figure 4 shows that most parents provide perfect (46% and 44%) and extreme (38% and 48%) care for their children. Very few children receive low-level care (16% and 8%) from their parents. From these relationships, we can say that parents provide more care to girls than boys.

Proper and perfect care of parents leads to the positive development of children's intelligence [23,24,25]. When children receive extreme care from their parents, their self-reliance tends to decrease, and in every situation, children rely on parental help. Consequently, children's mental intelligence does not improve properly (Figure 2). Considering the different environmental conditions, parents show more care towards girls than boys in modern society (Figure 3) because the girl child has to face many adversities outside the family. When it comes to perfect care, parents are neutral in both boys and girls (Figure 4). It is, therefore, demonstrated that, while parental affection is necessary for the development of mental intelligence in children, excessive affection damages them and jeopardizes their mental growth.

From the graphical analysis above we can say that a child's mental development is aided by adequate parental care, but his or her emotional growth is hampered when the amount of affection increases. It is more common for girls. The present society is also somewhat responsible for this because the safety of girls outside the home is still in question.

## 6. Brain Functionality in Behavioral Changes

MRI has shown that the structure of the human brain is higher at a teenage. The growth of these brain tissues lasts up to 32 years [26]. The frontal lobe usually grows before and after puberty, which controls their emotions and reasoning. The development of the frontal lobe of children during adolescence is not done properly due to the over affection of parents. Before and after adolescence, the speed of nerve fibers in the brain tends to increase. During this time more, myelin develops which ends in the frontal lobe. Through MRI much difference does not show in the brains of adolescents and young adults. The only difference is the immaturity of the frontal lobe [27]. At the time of puberty, adolescents' physical body matures and their brain development slows down. During this time, they become more emotional, making various weak decisions and taking risks [28]. During this time parents should always guide their children in the right direction and develop them as self-reliant. Children may be involved in a variety of antisocial activities at this time, for excess affection from their parents. Which harms them without developing their proper intellect?

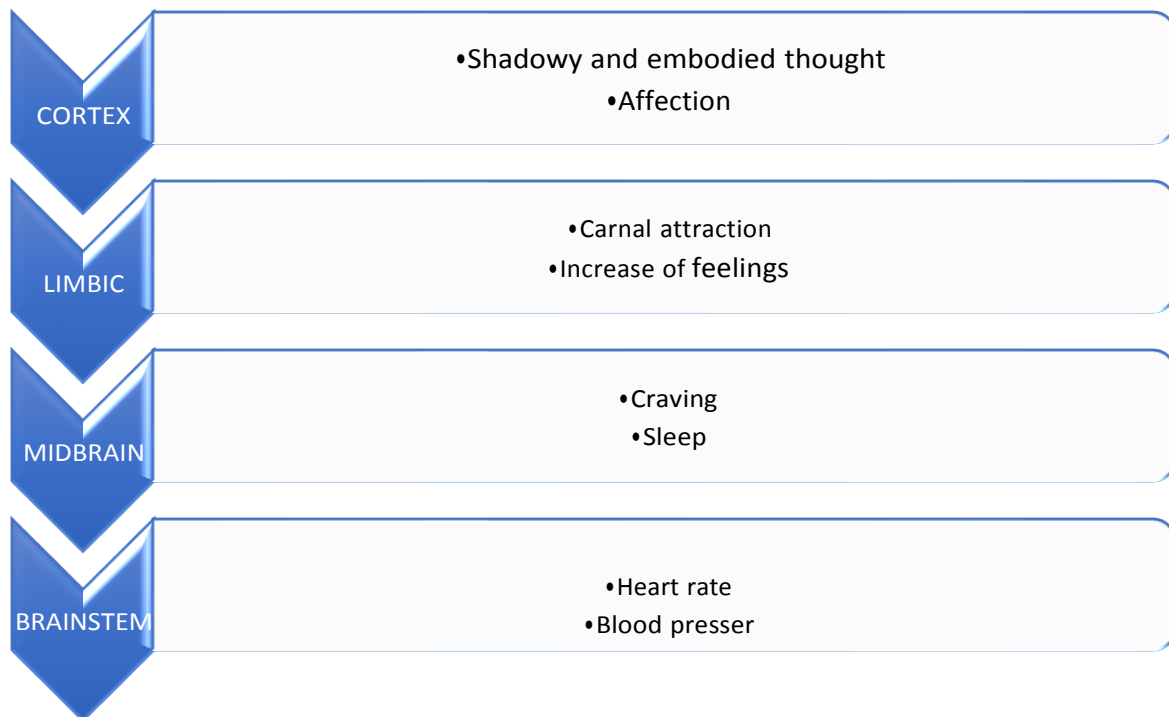


Fig. 5. Regions of brain and their functions

Figure 5 shows the different parts of human brain along with their functions. This makes it easy to understand which part of human character is controlled by which brain part. The top layer is called Cortex. This is the part of human brain where affection is created. Limbic are the feelings making part of human brain.

## 7. Finding and Discussion

Environmental factors have hastened the onset of adolescence. At the age of 8-9 years, children begin to enter the stage of adolescence. This time lasts 15-16 years on average. Basically, kids go through a lot of changes at this time [29]. It is thought that youngsters will learn what they observe at this period [30,31]. As a result, it is every parent's job to treat their children well, to accompany them, and to assist them in developing their personalities. Parents must need to be with their children for the development of talent, mental and physical health of the children. But too much affection and care are fatal detrimental for a child. Figure 2 shows that the intelligence of the children is declining day by day as a result of excessive affection from the parents. The reduction is normal because if the child is always in the shadow of the parents, then he or she can never realize his or her own independent existence. It makes them more crippled in the future. Children are not able to understand what will be good for them then. They have to depend on his parents to understand that. At that time, they continue to develop as a weak man, can't get along well with anyone outside, and make mistakes in choosing friends. In many cases, when they suddenly come out of the shadow of their parents in need of life, they can't control themselves. They get involved in various anti-social activities, misuse of

technology, and suffer from an inferiority complex. Children need to be taught to use modern technology but in a positive way. Remember, technology is a blessing for us, but its overuse can never be a good thing for children.

This paper discusses the issues caused by the excessive affection of the parents as well as the way how a parent can brighten the future of their child. Parents should stop helping their children with small tasks from an early age because, with the help of these small tasks, they themselves will not be able to do any type of work. For example, many children are unable to dress themselves without the assistance of their parents. Children must be given the opportunity to think freely about a subject. This will help them to think more clearly in the future and allowing them to enhance their lives. Parents need to change their mindset and have enough faith in their children. They have to believe that their children can able to do any type of work. Parents play a critical impact on their child's creative intelligence development. Children must cultivate the habit of figuring out answers to their own difficulties. It is the obligation of all parents to pay close attention to their children's every word and to express themselves appropriately. This will instill confidence in the children. If their parents do not pay attention to them, they will eventually believe that they are insignificant. Adequate entertainment and field sports should be provided for the children. They will be able to obtain knowledge in a variety of ways from various sources as a result of this. If they are lazy bastards and spend the day at home, all kinds of negative thoughts may enter their heads. All of these concerns can be alleviated with the right amusement. For any work, the youngster should never be put under too much stress. This added stress frequently leads to mental health issues. All youngsters should be encouraged to read intellectual literature as well as storybooks from an early age. The habit of reading this book plays an unimaginable role in the development of their intellect and thinking. From a young age, all parents should instill values in their children. As a result, when children reach adulthood, they will be aware of all of their obligations.

## 8. Conclusion

Today's child requires special attention in order to grow into a valuable asset in the future. Parents frequently display blind adoration for their children. It is not only bad in the early age of children when they are young, but it is also a curse for them later in life. They will not be able to do any work on their own and, on the other hand, they will not be able to distinguish between good and bad deeds as they get older due to their parents' increased affection. The decline of the children is caused by their parents' more affection. In this paper, we've emphasized that point. Through a survey, we compared the child's intelligence with the affection level of the parents and expressed our views accordingly. The sole purpose of the paper is to improve the future of children. The results of our analysis will open up new avenues for parents to raise their children. Parents need to help their children as much as possible during the development of the frontal lobe of their brain. This helps builds him up without giving him too much affection. Parents should be Letting their children do their own thing and giving them courage. As a result, every child will become intellectually self-sufficient, and the future will be brighter.

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## References

- [1] Graham, H., 2010. Where is the future in public health?. *The Milbank Quarterly*, 88(2), pp.149-168.
- [2] Hackling, M.W., 2016. Think Piece: Preparing today's children for the workplaces of tomorrow: The critical role of STEM education. *International Journal of Innovation in Science and Mathematics Education*, 23(3).
- [3] Gottman, J.M. and Katz, L.F., 1989. Effects of marital discord on young children's peer interaction and health. *Developmental psychology*, 25(3), p.373.
- [4] Ferrey, A.E., Hughes, N.D., Simkin, S., Locock, L., Stewart, A., Kapur, N., Gunnell, D. and Hawton, K., 2016. The impact of self-harm by young people on parents and families: a qualitative study. *BMJ open*, 6(1), p.e009631.
- [5] Rani, N.I., 2006. Child care by poor single mothers: Study of mother-headed families in India. *Journal of Comparative Family Studies*, 37(1), pp.75-91.
- [6] Broadley, K., 2016. Making the decision to remove a child from parental care: Twelve decision-making criteria. *Children Australia*, 41(2), pp.90-97.
- [7] Brandon, P.D. and Fisher, G.A., 2001. The dissolution of joint living arrangements among single parents and children: Does welfare make a difference?. *Social Science Quarterly*, 82(1), pp.1-19.
- [8] Tanga, P.T., Tanga, M. and Tanyi, P.L., 2018. Child Rights-Based Analysis of Children without Parental Care in Lesotho. *Social Work & Society*, 16(1).
- [9] Neugarten, B.L. and Danan, N., 1973. Sociological perspectives on the life cycle. In *Life-span developmental psychology* (pp. 53-69). Academic Press.
- [10] Cleveland, W.S., 2001. Data science: an action plan for expanding the technical areas of the field of statistics. *International statistical review*, 69(1), pp.21-26.

- [11] Gratz, J., Nation, S.O., Schools, S.O. and Kurth-Schai, R., 2006. The impact of parents' background on their children's education. *Educational Studies*, 268(2).
- [12] Wu, E.H., 2008. Parental influence on children's talent development: A case study with three Chinese American families. *Journal for the Education of the Gifted*, 32(1), pp.100-129.
- [13] Schwartz, I.M., 1995. *Children of incarcerated parents*. Lexington books.
- [14] Rimashevskaja, N.M., 2007. Children and young people are the future of Russia. *Russian Education & Society*, 49(2), pp.70-86.
- [15] Assor, A. and Tal, K., 2012. When parents' affection depends on child's achievement: Parental conditional positive regard, self-aggrandizement, shame and coping in adolescents. *Journal of adolescence*, 35(2), pp.249-260.
- [16] Lin, J. and Chen, Q., 1995. ACADEMIC PRESSURE AND IMPACT ON STUDENTS' DEVELOPMENT IN CHINA. *McGill Journal of Education/Revue des sciences de l'éducation de McGill*, 30(002).
- [17] Der, G., Batty, G.D. and Deary, I.J., 2006. Effect of breast feeding on intelligence in children: prospective study, sibling pairs analysis, and meta-analysis. *Bmj*, 333(7575), p.945.
- [18] Scaglioni, S., Salvioni, M. and Galimberti, C., 2008. Influence of parental attitudes in the development of children eating behaviour. *British journal of nutrition*, 99(S1), pp.S22-S25.
- [19] Schleider, J.L., Schroder, H.S., Lo, S.L., Fisher, M., Danovitch, J.H., Weisz, J.R. and Moser, J.S., 2016. Parents' intelligence mindsets relate to child internalizing problems: Moderation through child gender. *Journal of Child and Family Studies*, 25(12), pp.3627-3636.
- [20] Chitra, A., 2020. Impact of Socio Economic Status of Parents' on the Emotional Intelligence of Generation Alpha Kids. *International Journal of Latest Technology in Engineering, Management & Applied Science*, 9(5), pp.46-49.
- [21] Devine, R.T., Bignardi, G. and Hughes, C., 2016. Executive function mediates the relations between parental behaviors and children's early academic ability. *Frontiers in Psychology*, 7, p.1902.
- [22] Furnham, A. and Gasson, L., 1998. Sex differences in parental estimates of their children's intelligence. *Sex Roles*, 38(1), pp.151-162.
- [23] Steinberg, L.D., 2004. *The ten basic principles of good parenting*. Simon and Schuster.
- [24] Hendrick, H., 2015. Constructions and reconstructions of British childhood: An interpretative survey, 1800 to the present. In *Constructing and reconstructing childhood* (pp. 29-53). Routledge.
- [25] Ginsburg, K.R., 2007. The importance of play in promoting healthy child development and maintaining strong parent-child bonds. *Pediatrics*, 119(1), pp.182-191.
- [26] Lebel, C., & Beaulieu, C. (2011). Longitudinal development of human brain wiring continues from childhood into adulthood. *Journal of Neuroscience*, 31, 10937-10947.
- [27] National Institute of Mental Health. (2001). *Teenage brain: A work in progress (Fact Sheet)*. Retrieved from <https://public.health.oregon.gov/HealthyPeopleFamilies/Youth/AdolescentGrowthDevelopment/Documents/teenbrain.pdf>
- [28] Chamberlain, L. B. (2009). The amazing teen brain: What every child advocate needs to know. *Child Law Practice*, 28(2), 1-2, 22-24.
- [29] Kasesniemi, E.L. and Rautiainen, P., 2002. 11 Mobile culture of children and teenagers in Finland. *Perpetual contact*, p.170.
- [30] Legare, C.H. and Lombrozo, T., 2014. Selective effects of explanation on learning during early childhood. *Journal of experimental child psychology*, 126, pp.198-212.
- [31] Howes, E.V., 2008. Educative experiences and early childhood science education: A Deweyan perspective on learning to observe. *Teaching and teacher education*, 24(3), pp.536-549.

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