

EDU WORLD 2022

Edu World International Conference Education Facing Contemporary World Issues

**THE EFFECTS OF SOCIAL MEDIA ON THE LEARNING
OUTCOMES OF YOUNG SCHOOLCHILDREN**

Ionescu Claudiu - Eduard (a)*

*Corresponding Author

(a) University of Pitesti, Faculty of Educational Sciences, Social Sciences and Psychology No. 1; Targu
din Vale Street, Pitesti 110040, Romania of Pitesti, Pitesti, Romania, coj_florin@yahoo.com

Abstract

The present study aims to highlight a series of aspects referring to the influence of excessive use of the personal computer, electronic tablets and telephone video games on students of young age school results level. Also, this study aims to “anticipate” the possible apparition, in some students who frequently access the social media platforms or other sites on the Internet, excessively view the television programs, spend a lot of time with the computer or telephone games, of some attention, learning, conduct, behaviour, language and sleeping disorders, showing a high level of anxiety, a lack of motivation and willingness in school, as disruptive factors in children adaptability at the learning process. When children spend a lot of time in front of the tablet, phone or PC, sleep disorders can occur, also visual disturbances, a high level of anxiety or a higher risk of depression, obesity, learning disorders and low level of socialization, and deformity of posture. The child tends to take refuge in having fun or dreaming, easily letting go of any activity that needs focus of motivated effort.

2672-815X © 2023 Published by European Publisher.

Keywords: Adaptability, disorders, effects, excess, learning

1. Introduction

Learning is the main activity during the school age, and the success or unsuccessful of the student is evaluated based on the level at which he/she carries out the activity. More and more often, during the past years, specialists in the education field are drawing the attention on the issues that children are facing regarding the learning process, such as continuous decline in results of performances in school, the understanding and reasoning levels, speaking, reading, writing, logical-mathematical thinking and, last but not least, the general culture level lowering. An explanation of the changes that have occurred during the past years in children's behavior, in the learning capacity lowering and in the mental abilities weakening in more and more cases, can be attributed to influences that the television and mass media messages generally have on the mental abilities development, mentalities and behaviors manifested by students. Research shows that the environment experience in which the child grows has an essential role in the brain's structural development. But the way children are having fun evolves from one generation to another, and the preferred ways of spending their free time in today's generation, considered by specialists unfavorable for the normal brain development, are: accessing of social platforms on the internet, personal computers (electronic tablets), video games on the telephone and other electronic devices, to the detriment of physical, social, communication, environment exploring activities, etc.

2. Problem Statement

2.1. General considerations regarding the “television” phenomenon and its implications on the psycho-behavioural in students of young age

The harmful effects of the TV and computer manifest more strongly during the preschool and young school, ages during which the children do not possess the necessary discernment to defend themselves, easily becoming victims of the hypnotic force that these devices exercise.

The consequences of watching TV on children can be found in the LD symptomatic syndromes (*Learning Disabilities*) and AHDH (*Attention Deficit with or without Hyperactivity Disorder*), associated with numerous disorders in language, writing, reading, speaking, children manifesting apathy and lack of interest in lecturing or reading, their memory capacities are affected, imagination, willingness and motivation, there is an increase of their aggressiveness, irascibility, and impulsivity levels, as well as a desensitization of pain and violence, there will appear sleeping disorders, and amplification of anxiety and catastrophic thinking, social and emotional isolation through the flight into the virtual reality, mental passivity, dependence, erotic material use, and psychosexual pseudo-maturation. Studies show that the results in school and intellectual performances of children who watch TV and use the Internet are lower than the ones of the children who don't, and the symptomatic picture of the children who spent too many hours in front of the screen includes: low ability to reflect in a coherent way, in speaking and writing, of facts and ideas; tendency of communicating through gestures along with or instead of words; lowering of vocabulary knowledge under the fourth grade; proliferation of the verbal tics or filler words that don't express anything; inability to distinguish the differences between the sounds that compose the words and their understanding in the order of utterance, fact that also reflects the difficulty of pronouncing and

spelling of long words; insecure, confused understanding of higher difficulty reading; difficulty in understanding longer phrases, interspersed sentences and complex grammatical structures; difficulty of passing from colloquial language to the written form. On the other way, in a study made by a team of researchers of the North Carolina University, in Greensboro, over 2000 children and teenagers with ages between 9 and 15 have been examined. The time of daily usage of the electronic devices has been integrated. Geavlete, O., discusses the fact that numerous aspects that are related to mental health have been evaluated in these subjects, and the conclusion of this study was that “*there is no link, correlation or causal, between digital technology usage and mental health disorders*” (Geavlete, 2019).

2.2. The effects of watching Internet and TV use on the development of language and cortical activities in children

The child’s reception, tracking and assimilation of information came from the online environment, frequently using a faster pace or a different language than the one of the child, will get him used not to make the effort to understand the meaning of the words that are addressed to him. The difficulties get more obvious after the third grade, when superior level of linguistic abilities are needed, and which were not edified due to excessive use. Given the changes that have taken place during the past years in children and young people’s behaviors, and we are not only referring to the violent manifestations, it is important that the influence had on the mental ability, mentality and behavior development that the television and mass-media messages have on the people of the young generation, are known (Anderson & Collins, 1988). Psychologists have discovered that spending 2 hours in front of the TV predispose children to a very high risk of suffering psychological issues, regardless the way they spend the rest of the day, this risk being with 60% higher than in the case of children who don’t spend time in front of the TV at all. Too much time in front of the tablet, phone or PC can determine the apparition of visual disturbances, sleeping disorders, a high level of anxiety or a higher risk of depression, obesity, learning disorders, low level of socialization, and deformity of posture.

2.3. The effects on the cerebral structures and functions

The most important issues caused by the use are linked to a number of *dysfunctions in the activity of the prefrontal areas*, the executive center of the human cortex, who mediates the superior mental processes. It is difficult, even impossible, for children to focus on an activity for a longer time. They cannot listen or follow the explanations, cannot finish their activities (rapidly alternating with another activity), and have difficulties in organizing and planning their actions, act before thinking, do not have patience, are hyperactive and extremely irritable, cannot stay still in order to focus on the study or to listen to their teacher in class, have the tendency to stand up and walk around the classroom, bothering their colleagues. The child tends to take refuge in having fun or dreaming, easily letting go of any activity that needs focus of motivated effort. Regarding the effects on human brain, the MRI technology proves that shiny screens affect the frontal cortex, the zone that is responsible of impulse control (exactly as in the case of drugs!), causing addiction to them, but also impulsivity in the situation of forbidding the use of these devices. Another concerning effect consists of people thinking less when using their phones, than in

the situation of not being in possession of them. The intelligence tests show a decrease in the IQ while using the electronic gadgets (Michailov, 2018).

The affections on the prefrontal cortex caused by excessive view have as a result the apparition of the ADHD Syndrome (Attention Deficit with or without Hyperactivity Disorder), meaning the weakening, up to a pathological level, of some fundamental mental capacities, such as: focusing of the attention, short term memory, creative imagination, motivation of having any action that requires effort. Even though the television generates a passive mental attitude, a tardiness in information processing, in thinking, watching the screens is a main factor in hyperactivity induction. Extreme agitation, the incapacity of “staying still”, excessive impulsivity, these are states that come after repetitive watching. Neuropsychologists prove that, proportional to the increase of the time spent watching, the hyperactivity increases. In another very recent study, published by JAMA Pediatrics, researchers have scanned the brains of children with ages between 3 and 5 and have discovered that the ones who spend more than an hour per day in front of the screen, without the parent’s implication, have low developing levels of the white matter of the brain, and extremely important component of the language, reading and cognitive development (LaMotte, 2019).

The hypnotic effect – the neuropsychologists have proven that watching TV programs, excessive use of the computers (regardless of purpose), have as main effect the introduction of the watcher’s cortex into a semi-hypnotic state (during which the alpha waves are predominant), fact that explains the attraction that mass-media audio-video have on everybody, but mostly on children. It is impossible to find an activity during which the children will stay calmly so fast and almost immobilized for such a long period of time, such as when they stay in front of the TV. Furthermore, this is the exact reason for which the parents and in some cases the teachers use the “screen” as a sedative.

2.3.3. The Television, video games and the Internet have the capacity of generating a strong *dependence* bounding (Gheorghe, 2006), the deprivation on them producing, to children, the same symptoms as in the case of the substances and the behaviors that give dependences.

2.4. Effects on mentalities and behaviors

Virgiliu Gheorghe brings to our attention an entire series of aspects regarding the changes that the TV produces in the structural development and functionality of the human brain, such as the effects on cerebral structures and functions, mentalities, behaviors, and, of course, on the health. Regarding the mentality and behavior shaping, excessive use of video games, the presentation of some models in social media (mostly unrealistic), represent a real danger through the psychological imitation mechanisms, through „imposing their own models in the individual and collective mental” (Gheorghe, 2006, p. 203), and the predominance of the violent or erotic messages on the screen, of the rebel or consummator behaviors, have especially strong effects in the shaping of the knowledge horizon and the children’s behavior. It has been found that students who spend more than two hours in front of the TV express more aggressively (retaining the aggressive attitudes of the characters), compared to the ones who spend less time on the phone, computer or TV, these ones retaining different attitudes, less aggressive.

The erotic message that is present in the commercials on TV or different sites, way too easy to be accessed on the Internet, excites children’s imagination and contributes in an essential manner to an early

maturation from a sexual perspective. A frustrating sentiment appears, because of the fact that they cannot lift to the beauty and seduction standards proposed by the ones on the screen or some erotic performance. The rebel behavior, the ironic attitude and the impertinent language promoted on the screen form selfish, self-centered and incapable of normal socialization young people (Rășcanu, 2007).

2.5. The effects on the children's health

A recent study, realized by D&D Research presents some worrying numbers: Romanian children with ages between 2 and 5 spend on a daily basis an average of 3 hours and 4 minutes in front of the screens (TV, tablet, computer, phone), compared to the limit time, accepted by experts for these ages, of maximum 2 hours per day. The ones with ages between 5 and 9 spend an average of 3 hours and 54 minutes in front of screens of any type (TV, tablet, computer, phone), meaning almost double that the maximum time limit recommended by experts. Many times the phone, tablet or computer become a substitute of the parent (Michailov, 2018).

Watching the screens can have a series of negative effects, decreasing the nocturnal sleep and leading to tiredness, especially visually, the appearance of attention disorders, lowering of the physical performances. More important is the TV's role in the apparition and development of obesity in children and adolescents, who prefer watching a program or a movie, instead of another activity, such as a walk outside or a sport. Being used to the TV, they get to be satisfied only by the visual or emotional perception of the things, without making any effort to understand, finally proving a decrease of the intellectual level and, implicitly, of the performances in school. The effect of the short term memory, which becomes deficient, represents the main reason of the decrease in the attention during the classes. Children not being able to remember for a long period of time words or phrases recently heard, so that they can understand the full meaning of what is being communicated to them, cannot follow the idea that is being communicated, if the phrases are too long, because of forgetting the previous communication (Mureșan, 1990); therefore, difficulties in following the teacher's instructions appear, the tendency to go from one activity to another without finalizing any of them, may appear irritability tendencies, low tolerance at frustration, difficulties in understanding of the presented materials, especially orally. The students find themselves incapable of listening to the entire discourse of the teacher, because, by watching TV programs, focusing their attention especially on images, they haven't developed their cortical arias so that they can understand and remember in a discursive manner, they learned to ignore the spoken messages, therefore they are having difficulties in understanding the long phrases, of the interspersed sentences, of the complex grammatical structures, their vocabulary is poor, limited under the age level, and they give the impression that they are not listening to what they are being told (Jinga & Negret, 1994). A helplessness is being manifested by the students in understanding, remembering and applying what they have read, because the receiving of the information in a "already done" manner lowers significantly their availability and capacity to read, hence the studies prove that the cortical activity solicited by the TV is mediated by other neuronal centers than the ones for reading, inhibiting, at the same time, the neuronal relations configuration which should mediate the lecturing (Gheorghe, 2007, p. 207). It has been proven that in children who spend a lot of time in front of the screen, there is a decrease in the imagination fond, their imagination being less creative, very poor, even though their mind is caught in

different mental scenarios or reveries, more than in a normal person's case, which doesn't stimulate the imagination, but it exhausts it. The scenarios appear almost by their own, because of a powerfully exercised imagination, through visualization and because of the many images that have been thrown in the black box of the subconscious, from where they come back to occupy that person's mind. The inhibition of the left hemisphere during the visualization, or the abnormal development of its neuronal networking, reflects on the language, syntactic constructions, grammar, the development and use of language in the process of thinking, the use of language as a fundamental way of cortex development, has powerful repercussions on the logical and analytical thinking, on the mathematical or scientifically reasoning, researchers finding that the students who watch more TV have more issues in communication. Not the time spent in front of the PC is the issue, but the amount of time the child has for other activities (learning, fitness, sleeping etc.). Therefore, instead of forbidding computer usage, one may have more success in forcing to do other activities (a sport, watching a film, discussions, dinner, etc.).

3. Research Questions

Can watching Internet and TV use have effects on the language development and cortical activities in children?

This study aims to highlight the "accessorizing" level of the families where the students come from, with modern audio-video technology, TV, personal computers (laptop), telephones with Internet and information access (through TV and Internet), to establish the correlation between the time spent in front of the screen and the results at school, highlighting the differences between boys and girls regarding the number of hours spent in front of the TV and the personal computer on a daily basis

4. Research Methods

The present micro-research took place in the period of 20.02.2022 – 20.04.2022, on a group of 60 subjects, with ages between 9 and 10 years (the age average being of 9.5 years), students from the third grade, in general schools within the counties Argeş and Vâlcea, a homogenous group in terms of age and education level. School documentation analysis—with the purpose of determining the school preparation level, allowing at the same time to make a classification of their school results in four categories: "Very Good", "Good", "Satisfying", and "Unsatisfying" depending on gender and origin environment. Therefore, the school catalogs containing the school grades. In order to apply the first questionnaire, called "*Computer and TV in my life!*", each child received a set of 22 questions, written on paper, having their answer options numbered using the letters "a", "b", "c" and "d". During the making of the questionnaire, the students particularities were taken into account, as well as their understanding level, therefore using easy words, that will not put them in any difficulty. The items aimed to highlight the level of "accessorizing" in the families from where the student come, with modern audio-video technology, and access to information (through TV and Internet), the time spend in front of the screen on a daily basis with or without parent's approval, children's choices regarding the use of these devices or other recreational activities, the time of the day when they when they want to use them.

5. Findings

After **the children learning results analysis** obtained in the first semester of the 2021-2022 school year and the ones obtained by them in the first part of the second semester, as well as after the discussions had with their teachers, he following result:

- girls in the urban environment obtained a high level of “**very good**” learning results (52%), in comparison with girls from the rural environment, who obtained a score of only 29%, fact that proves that girls who live in cities are more preoccupied in getting good learning results, in comparison with the girls from rural environment, but also with boys from urban environment (26%), less preoccupied in school performances.
- 71% of the boys from the rural environment have obtained “**good**” learning results, in contrast to the ones from the urban environment, who have scored 48%.
- a balance can be seen regarding the “**weak**” learning results obtained by boys, both, from urban (26%) and rural (29%) environments

At the end of the application of this questionnaire, the results have been presented in the following way:

Question 1: “*Do you have at home one or more TVs?*” – following the analysis of the responses, it results that most of the students, both, from the rural and urban environments have at home **one TV receiver**, while a very low percentage of them have more than two TVs, and none of them is in the situation of not having a TV in their house.

Question 2: “*Do you have a computer, laptop, tablet or a telephone with Internet at home?*” – following the analysis of this table we can see that the most part of boys from the urban environment (94%) have at home a **personal computer** (laptop, tablet, telephone with Internet), meanwhile a very low percent (6%) do not have one. Regarding the girls in the rural environment we can see that a very high percent (86%) have a PC at home, in comparison with the ones who do not have one (14%).

Question 3: “*Do you have a TV in your room?*” – it is considered that the presence of the TV and also of a computer (laptop, tablet, telephone with Internet) in the children’s room represents an exciting factor for children, manifesting the tendency of following more often the programs on them. The obtained answers to the question above have evidenced that a high percentage of both, boys and girls, from the rural environment (86%), have a TV in their bedroom, compared to the ones who do not have (14%), and a high percentage as well of boys and girls from the urban environment (61%, respectively 70%), who have a TV in their bedroom, in contrast to the ones who do not have a TV received installed in their bedroom (39%, respectively 30%).

Question 4: “*Do you have in your room a computer (laptop, tablet, telephone with Internet)?*” – this item has evidenced that there is a very high percentage (between 78% and 86%) of boys and girls from both environments, urban and rural, who have a PC in their bedroom (laptop, tablet, telephone with Internet).

Question 5: “*Do you have a TV and a PC (laptop, tablet, telephone with Internet) in your room?*” – this item has aimed the reevaluation of concomitant existence of the TV receiver and the computer in children’s room, and the results have shown that a very high percentage of children of both genders, from

both environments (78% - urban and 72% - rural), have simultaneous a computer (laptop, tablet, telephone with Internet) and a TV.

Question 6: “Do you watch TV or surf the Internet on a daily basis?” – this question has a high percentage of favoring the children who watch TV on a daily basis, both, boys and girls, from both environments, the boys from the urban environment having the highest percent (100%), while only 14% of the boys and 29% of the girls from the rural environment do not watch TV on a daily basis.

Question 7: “How much time do you spend watching TV or surfing the Internet?” – the majority of the girls (74% from the urban environment and 57% from the rural environment) spend an average of 3 hours in front of the TV and PC, and the majority of boys (78% from the urban environment and 43% from the rural environment) are preoccupied of the TV and PC more than 3 hours. This accessing time of the computer had a very high average during the pandemic state established because of the COVID-19, but had a slow decrease after the on-site format classes were resumed, in contrast with the pre-pandemic period.

Question 8: “Do you watch TV more during the week time (during the days you go to school) or at the end of the week (in the weekend)?” – this item has evidenced the fact that there is a balance between boys, from both of the environments, regarding their preferences of watching predominantly during the week or during the weekend, almost half of them preferring to watch series during the week, and the other half during the weekend. More than a half of the girls from the urban environment (52%) prefer the TV shows at the end of the week. There is a percentage, balanced as well, of the girls and boys from the urban environment (22% for each of the genders), who constantly watch TV and PC in the same manner, on a daily basis.

Question 9: “Have you ever hidden from your parents when you wanted to watch TV, play a game on the computer or surf the Internet?” – even though the number of children who do not hide from their parents when they feel the need to watch TV or PC is somehow high, it has been proved that there is a higher percentage of boys from both of the environments (18% - urban, 22% - rural), who intended numerous times to share their intentions to their parents, compared to the percentage of the girls who did the same (14% - urban, 16% - rural).

Question 10: “Do you have Internet access at home?” – a very low percentage of the families in the rural environment do not have access to the Internet (14% girls, 6% boys), in spite of the fact that in all the origin environments of the children taking part into this micro-research, both rural and urban, this facility exists, not existing any case of isolated homes or of parents who haven’t signed a contract with a cable TV operator.

Question 11: “Do you surf the Internet at home?” – Most of the responses that were provided by the boys from the urban environment who own Internet access were positive (98%), while the boys from rural environment, who have Internet access, only sometimes access the Internet. The percentage of girls from the rural environment who are preoccupied on the Internet stays at a low grade, proving the existence of other activities during their daily routine.

Question 12: “Do you play different games on the computer, on the phone?” – the computer (telephone) games are preferred more by the boys from the urban environment (98%), while 22% of the

girls from the urban environment, as well as 16% of the boys and 32% of the girls from the rural environment do not manifest attraction for these games.

Question 13: “*You would prefer a computer that: ...*” – the responses to this question showed their interest on the Internet (90% of the boys in the urban environment), to the detriment of games, making of drawings and writing, which proves that they are interested in the characters action, the dynamics of the images, competitive spirit and not in the monotony of writing or drawing.

Question 14: “*You would prefer games: ...*” – the responses evidenced the majority preoccupation of the girls in games that challenges their imagination (84%), boys from the rural environment prefer the car racing games that challenge their skills (70%), competitive spirit, while the boys in the urban environment are attracted to violence, aggressively, will of power, domination (82%).

Question 15: “*While doing your homework or learning, do you have your TV or computer open?*” – the presence of the open TV brings along a weak focusing on the learning tasks, this being the reason for which the majority of children use to do their homework with the TV closed. The interesting fact is that during the discussions with the children, the wish of not keeping the TV on while doing their homework came from themselves, not necessarily due to their parents, grandparents or other people from their entourage imposing. However, a small part of the boys and girls from the urban environment sometimes keep the TV on, while the majority of boys from the rural environment (86% of both genders) do not do their homework with the TV on.

Question 16: “*Do your parents let you watch Tv while doing your homework or learning?*” – obviously, as an addition to the above, the interdictions came from the parents have to be included, only a certain percentage of the boys from the urban environment (22%), benefiting from the parents “indulgence” regarding the TV watching while doing their homework.

Question 17: “*Do your parents warn you not to spend too much time in front of the TV or PC?*” – most of the parents are interested in the harmful effects of watching TV, video games and internet on their children, with a higher percentage of the ones from the urban environment (61% for the boys and 65% for the girls) who often “argue” their offspring when surprised preoccupied on movies, games, Internet surfing.

Question 18: “*When you go to sleep: ...*” – most of the boys (74%) and girls (61%) from the urban environment go to sleep at later hours (between 10PM and 11PM) than the ones from the rural environment (26% boys and 39% girls). In the meantime, the children from the rural environment, especially during the school time, a part of them need to commute to school, via minibus, bus or even their parents.

Question 19: “*You wake up in the morning: ...*” – for most of the children, both, from the rural and urban environments, the wake up hour is between 6AM and 7AM, with the specification that some of the students who commute wake up in the most cases at 6AM, and the ones who do not commute wake up at around 7AM.

Question 20: “*Do you watch TV or PC before going to bed?*” – the number of the ones who responded who “often turn on the TV for a little time” before bed in the week time is easily lower than the one of the children who only do this during the weekend, resulting that at the end of the week there is a

tendency of program “relaxation”, characterized by a permissiveness in the utilization of the TV or PC by the children.

Question 21: “Do you watch the TV or PC before or after you do your homework?” – to this question, 57% of the boys from the urban environment prefer watching the TV programs before doing their homework, while a high percentage of the boys from the rural environment (71%) and of the girls from both of the environments (70% and 86%) prefer to do their homework before turning on their TVs or PCs.

Question 22: “How much time do you allocate on doing your homework?” – the time allocate by children on doing their homework is assigned depending on the difficulty and understanding levels and on their interest in fulfilling their daily tasks. As an average, for most of the children this interval falls between 1 and 2 hours.

Applying this questionnaire has evidenced *the existence of a high level of “accessorizing” in the families where the students come from, with modern audio-video technology and an easy access to information* (through the TV and the Internet), no matter the environment from which they come from (urban or rural), resulting in a numeric superiority of the ones who live in the city and own TV receivers and PCs, in front of the ones from the rural environment, who also own TV receivers and PCs.

It was also possible to *quantify the time spent on a daily manner by children in front of the TV or PC, the existence of parent’s approval on this matter, children’s preference for the computer, TV or other recreational activities, the time of the day when they prefer to watch the TV programs or to stay in front of the computer.*

The introduction of the data in the SPSS (version 10) did not have as a result of establishing correlations between the time spent by the girls and the boys in front of the TV and the learning results obtained by them, while it has allowed the highlighting of *some differences between girls and boys, regarding the number of hours allocated on a daily manner to the TV and the PC.* Because the two variables, « the time spent in front of the TV and the PC » and « gender of the subjects », are measured on nominal scales, there has been calculated a nonparametric Chi square or χ^2 (chi-square) correlation coefficient. Finding the significance threshold value was aimed (found in the table in the *Value* column), which is of 4,800 and which, rounded to two decimals becomes **4, 80**. Its liberty degree (found in the table in the *df* column) is 1, and the exact two-tailed probability (found in the table in the *Asymp. Sig. (2-sided)*), is of 0,028. Therefore, the correlation table (table 1), highlights the existence of a significant correlation ($p = 0,028$) between « the time spent in front of the TV and the PC » and « gender of the subjects », being able to describe the result in the following way: “There is a significant association between the gender and the time spent on TV+PC, in the way that boys tend to spend more time using the TV+PC (more than 2 hours) than girls” ($\chi^2 = 4,80$, $DF = 1$, and $p = 0,028$). Therefore, the hypothesis stating *there are differences between girls and boys regarding the number of hours allocated to TV and PC on a daily basis* has been confirmed.

Table 1. Correlation table

	Value	df	Asymp.Sig. (2sided)	Exact Sig. (2- sided)	Exact Sig. (1- sided)
Pearson Chi-Square	4,800	1	,028		
ContinuityCorrection	3,675	1	,055		
Likelihood Ratio	4,902	1	,027		
Fisher's Exact Test				,054	,027
Linear-by-Linear Association	4,720	1	,030		
N of Valid Cases	60				

The second questionnaire regarding “*Negative effects on the TV on children raising*” (Gheorghe, 2007) has been completed by the parents, who were given a copy. Another example of this questionnaire was destined to identifying children’s behavior. The number of answers given by the parents for each of the children has been totaled, also aiming the existence of the corresponding response in the teacher’s responses, fact that brings an objective note in children appreciation. Eventual “conditions” from which children may suffer from due to excessive TV programs, video games and Internet use could be seen.

The answers given by the parents and teachers, along with the data obtained through observation, have led to the identification of the following predominant tendencies:

- a. **for girls** – cannot stay still on the chair, frequent hands movements (67% of the subjects), easily distracted (67% of the subjects), interrupt, bother or interferes in others activities (60 of subjects), have poor writing skills and are messy (87% of subjects).
- b. **for boys** – are emotional, sensitive and anxious (73% of the girls), have poor writing skills and are messy (40%) and manifest a fear of darkness or being alone, monsters, accidents, earthquakes, death (40% of the girls).

6. Conclusions

If it is true that television opens the taste for culture, can satisfy a passion such as sport or cinephilia, we can blame the passivity through which it does it, though. The opinions from the parents and teachers regarding the TV are mostly negative, while the ones from the children appear to be positive, and the shows being watched fuel the conversations between children, while the interdiction to watch a program is seen as frustrating. Television and Internet use can have a series of negative effects on a child, such as nocturnal sleeping diminishing, fatigue appearance (especially the visual one), attention disorders, hunger and physical performances diminishing.

Some of the tendencies identified in children behaviors part of this research can also be found in the attention disorders and hyperactivity symptomatology table: helplessness in finishing an activity, incapacity in listening or following, difficulty in staying focused or connected to an activity, difficulty in actioning before thinking, rapidly alternating activities, difficulty in organizing or planning actions, difficulty in waiting their turn. Some of these disorders may be milder, while others more severe. In order to avoid these disorders and ensure a harmonious development of the children, they need to be shaped, optimally and suitably influenced by a series of factors. If the heredity offers the genetic premises of intellectual development, the environment offers the existential framework for the child, the shape after

which the mind and soul develop. Out of the environment factors that contribute to the harmonious development of the child, the following can be mentioned: temperature, food, shelter, comfort, physical and mental hygiene, fulfilling the parent roles by the adults (parent, teacher, doctor) and their level of training, family climate, possibility of taking action, experiencing the game, student's entourage and activities, such as reading, watching TV, computer, music etc.

When the child presents sleeping disorders, being used to stay in front of the screen at a late time, during the night, having difficulties waking up in the morning, when the school results decreases, and the child doesn't hand over the homework in time and has issues when focusing, when the child has lost interest in activities that he/she used to like, when insists to be left alone while using the computer, closing the site when the parents approach, when he/she easily gets tired and often has a bad mood, a series of action needs to be taken, in order to help the child to retake control.

In this regard, a series of actions are recommended to the parents, such as: initiation of a parent-child discussion, during which the parent shows affection, expressing in the same time the concern for the observed changes (ex. Lower grades in school, bad mood, etc.); asking for a schedule of the hours spent by the child in front of the screen (TV and computer); setting clear boundaries, rules referring to the number of hours that children can spend in front of the screen; placing the TV and computer in a common area, in the living room, that would make the child supervision possible; encouraging the children in finding new activities, or in resuming contact with the groups of children or activities that he/she used to like; collaboration of the parents with the child's teachers, school psychologists, who are able to help highlighting any behavior changes in the child, supervising the child's use of the school computer, observing his/her entourage, etc.

The practical-applicative purpose of this study is considering the "sensitization", the awareness on the involved factors in the raising and educating of children (parents, teachers), regarding the harmful effects that the use of TV, video games and Internet can have on the psycho-behavioral development and their health, identifying those types of behaviors that can be provoked by excessive television, allowing in this way the anticipation of the apparition of some disorders in some students (attention, learning, conduct, behavior disorders), avoiding the risk factors (TV watching in excess, video games and Internet) and school performances improvement. Currently, giving up on the use of the computer, tablet or personal telephone is not easy to do, therefore the effort to free oneself from media influence must be correlated with a good knowledge of the phenomenon and of adopting a way of life which can ensure a minimum immunity.

References

- Anderson, D., & Collins, P. (1988, April, 01). The impact on children's education: television's influence on cognitive development. *Office of Educational Research and Improvement*. Amherst, Department of Education. Massachusetts University.
- Geavlete, O. (2019, October 08). Sa nu exageram cu limitarea timpului in fata ecranelor. Sanatatea copiilor nu este afectata [Let's not exaggerate with limiting the time in front of the screens. Children's health is not affected]. *Educatie_si_disciplina* [Education_and_discipline]. https://www.qbebe.ro/psihologie/educatie_si_disciplina/sa-nu-exageram-cu-limitarea-timpului-in-fata-ecranelor-sanatatea-copiilor-nu-este-afectata-spune-un-studiu

- Gheorghe, V. (2006). *Efectele micului ecran asupra mintii umane* [Effects of the small screen on the human mind]. Prodromos.
- Gheorghe, V. (2007). *Efectele micului ecran asupra mintii copilului* [Effects of the small screen on the child's mind]. Prodromos.
- Jinga, I., & Negret, I. (1994). *Invatarea eficienta* [Efficient learning]. Editis.
- LaMotte, S. (2019, November, 04). RMN-urile arata ca timpul petrecut pe ecran este legat de dezvoltarea mai scazuta a creierului la prescolari [MRIs show screen time linked to lower brain development in preschoolers]. *CNN Health*. https://edition.cnn.com/2019/11/04/health/screen-time-lower-brain-development-preschoolers-wellness/index.html?utm_term=link&utm_content=2019
- Michailov, M. (2018, June, 07). Cat stau copiii in fata ecranelor [How long do children stay in front of the screens]. *Forbes Romanian Magazine*. <https://www.forbes.ro/cat-stau-copiii-fata-ecranelor-119725>
- Mureșan, P. (1990). *Invatarea eficienta si rapida* [Efficient and fast learning]. Ceres.
- Rășcanu, R. (2007). *Psihologie aplicata* [Applied psychology]. Ed. University of Bucharest.