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A STUDY ON LIFE THREATENING DISEASE TO THE CHILDREN BY EXPOSING THEM TO THE RADIATION OF ELECTRONIC DEVICES IN TAMILNADU

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ABSTRACT:

In our day to day life, we are using many electronic devices for various uses like communication, navigation, work, medical needs, entertainment etc. They are very much convenient for us and also makes our work easier but they are very harmful to our health. They emit electromagnetic radiation which is a threat to our health. This electromagnetic radiation leads to many diseases like blood brain barrier, cancer, fertility and reproduction, electromagnetic hypersensitivity, and glucose metabolism. The research method used is empirical research, the sample collected for this research is simple random sampling method, total sample size is 250 which was collected to the public of poonamallee area. The dependent variables are anxiety, depression, shortened life span, reduced attention towards anything as a factor, parental supervision for children, light emitted from electronic devices affects sleep pattern. Independent variables are Age, gender, occupation, educational qualification, marital status. The aim of the study is to study the factors which are affected due to the electronic devices.

KEYWORDS:

Electromagnetic radiation, Metabolism, Hypersensitivity, Fertility, Communication

INTRODUCTION:

In today's world our day to day activities depend on electronic devices like laptops, mobiles, ipad etc as they are convenient and make our work smooth and easier but it has a lot of harmful effects which are not even known to the people. The main aim of this research paper is to make awareness of the threats to the public regarding the radiation which is emitted by the devices and also the health diseases. In this present era, many telephone companies have entered 5G network as it is helpful for the beings in the society, but it causes a huge loss to the human society as it affects the male reproductive hormones and leads to infertility as it emits upto 6000GHz frequency for the mobile phones. It also affects the female reproductive parts to a lesser extent. These electromagnetic waves also disturbs the mental as well as the physical stress. If the EMR increases, then the stress level will also increase. The EMR emitted by our devices is known to decrease our production of the hormone melatonin; reduced levels result in insomnia, difficulty concentrating, shorter attention spans, and more. EMR waves can also disturb our bodies' natural electrical system, causing both mental and physical stress. The more intense the EMR, the more physical stress, and thus mental stress we experience. The WHO established the International Project in 1996, to assess the scientific evidence of possible health effects of EMF in the range of 0 - 300GHz. It also leads to blood brain barrier, cancer, fertility and reproduction, electromagnetic hypersensitivity, glucose metabolism. Many parents are not allowing their children outside due to many fears of losing their children and if they mingle with any other children, then they will be changed. Nowadays, we miss many games which were played in previous periods, now they are only interested in the video games which are not good for health and they miss the

vitamins which are available in sand. Most of the parents are not supervising their children whether they are using their phones properly, which might also lead to commission of crime. Most of the people didn't allow their children to play with their friends due to the lockdown so there might be some relationship gaps between the friends and also leads to diseases like anxiety and depression and they had started to take pills for depression which also lead them addicted to it. If the child is not playing and if he uses only the phone, it might also lead to obesity in their childhood itself and many children are wearing their specs in their early childhood.

OBJECTIVES:

- To determine whether the lack of physical activity would result in delayed physical development.
- To study the impacts caused due to the lights emitted from electronic devices.
- To find whether the light emitted from electronic devices disrupt sleep patterns of the child.
- To determine the vital role of parental supervision in reducing the screen time of the children.
- To analyse the factors which are caused due to long usage of electronic devices.

REVIEW OF LITERATURE

Rodrigo Bagur MD, 2017 linked 230 cases, mean age 78 ± 8 times and 70 were men. A aggregate of 199 cases had leaders (59 binary chamber), 21 (9) cardioverter-defibrillators, and 10 (4) resynchronizers or defibrillators. **Meor Azraai, Daniel D'Souza, 2022** focus on the current clinical practice and the lately streamlined guidelines of managing cases with CIED witnessing RT. And aim to simplify the substantiation and give a simple and easy to use companion grounded on the recent guidelines. **Giuseppe Boriani, Laurent Fauchier,**

2019 Concluded that despite a relative lack of randomized trials and robust data assessing remedial strategies, a methodical and holistic approach is demanded to ameliorate the **operation of these common issues and to reduce their significant health care burden.** **Massimo Zecchin, 2018** reviewed in vitro and in vivo literature data and other public published guidelines on this issue so far. On the base of literature data and agreement of experts, a detailed approach grounded on threat position and applicable operation of RT cases with CIEDs is suggested, with important counteraccusations for clinical practice. **R. C Baumann, 2007** reviews the types of failure modes for soft crimes, the three dominant radiation mechanisms responsible for creating soft crimes in terrestrial operations, and how these soft crimes. **Toshiki Ohno, Toshinori Soejima, 2021** findings in this decade, a multidisciplinary working group of radiation oncologists, medical physicists, radiation therapists and cardiologists concertedly reviewed and revised the former guidelines. **Rohit Rastogi, Amta Saxena, 2022** find a way out to help ourselves from the dangerous effect EMR position at plant and homes. It's time to borrow ultramodern way from traditional ways and further a model that involves the community, with a stakeholder-concentrated approach and also done test to find the impact of Yagya on effect of radiation on mortal beings emitted from electronic bias. Results of the trial showed significant drop in EMR with Yagya, indicating Yagya can be one of the useful results as a non-conventional system for reducing inner EMR position. **Toshiki Ohno, Toshinori Soejima, 2021** findings in this decade, a multidisciplinary working group of radiation oncologists, medical physicists, radiation therapists and cardiologists concertedly reviewed and revised the former guidelines. **M.E. Stone, B. Salter, A. Fischer, 2011** discusses applicable advances in CIED technology and practical perioperative operation as outlined in the 2011 ASA Practice Advisory and HRS agreement statement. **Michael Mayinger,**

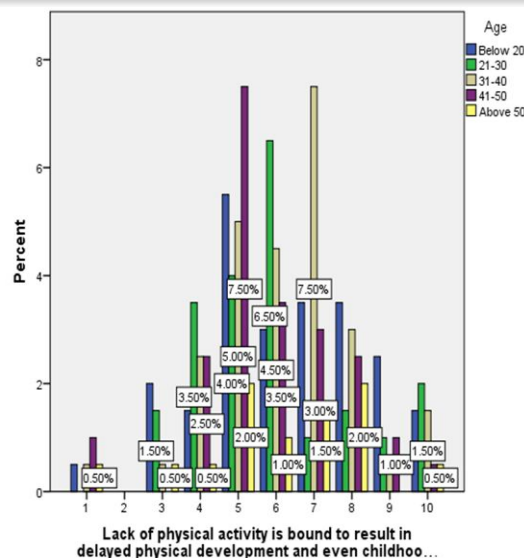
2020 Purpose is to report the feasibility of glamorous resonance imaging- guided cardiac single bit radioablation(MRgRA) in a case with dilated cardiomyopathy and intermittent sustained ventricular tachycardia(VT) leading to electrical storms(ES). **JamesR. Schwank; MartyR. Shaneyfelt, 2008** The two primary types of radiation- convinced charge are oxide-trapped charge and interface- trap charge. These charges can beget large radiation-convincing threshold voltage shifts and increases in leakage currents. Two alternate dielectrics that have been delved for replacing silicon dioxide are hafnium oxides and reoxidized nitrided oxides(RNO).

METHODOLOGY:

For the purpose of the study, The research method used is empirical research, the sample collected for this research is simple random sampling method , total sample size is 250 which was collected to the public of poonamallee area. The dependent variables are anxiety, depression, shortened life span , reduced attention towards anything as a factor, parental supervision for children , light emitted from electronic devices affects sleep patterns. Independent variables are Age, gender, occupation, educational qualification, marital status. Independent sample t test, chi square and graphs are the research tools used in this research.

ANALYSIS:

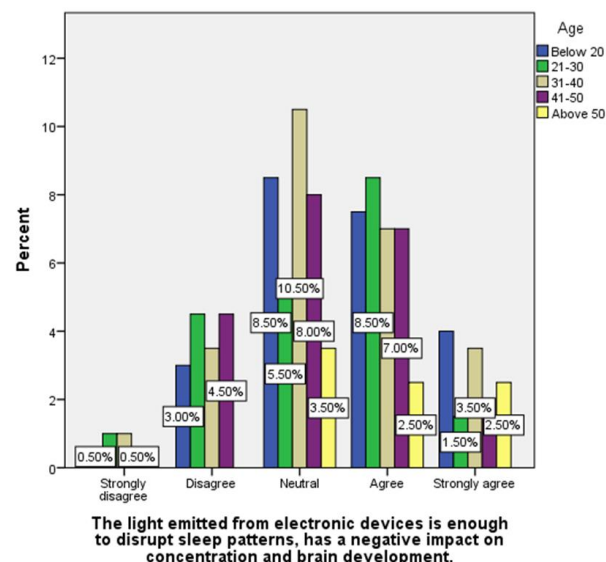
Fig 1:



Legend:

In fig 1, Lack of physical activity is bound to result in delayed physical development compared with age.

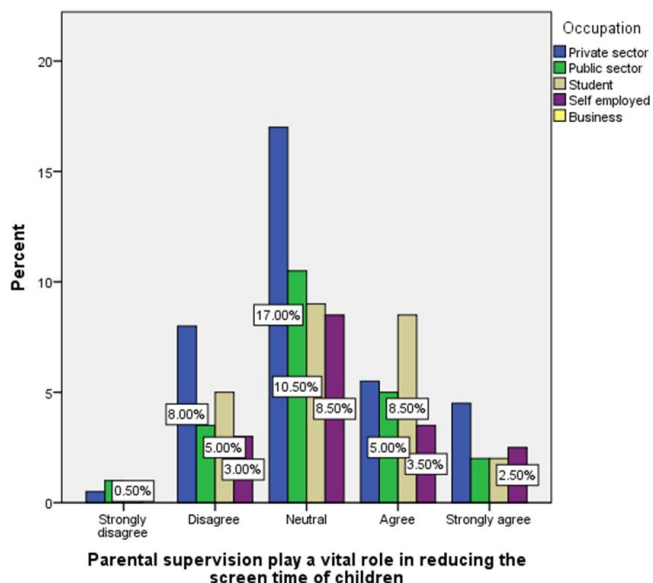
Fig 2:



Legend:

In fig 2, light emitted from electronic devices is enough to disrupt sleep patterns compared with age.

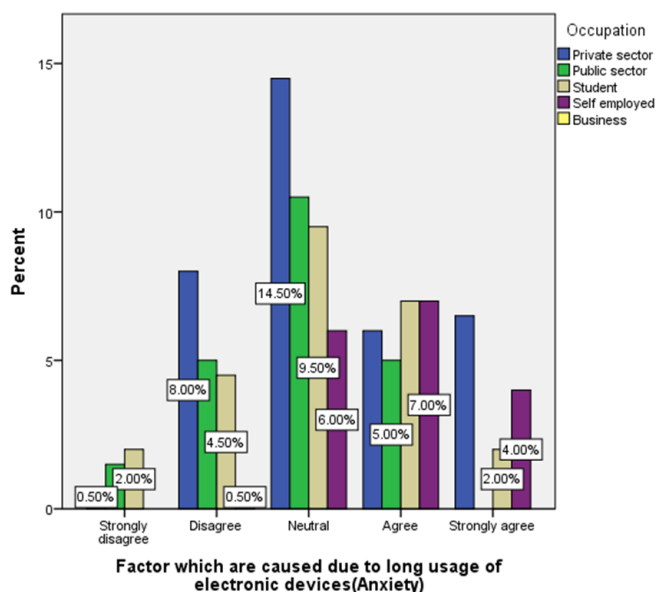
Fig 3



Legend:

In fig 3, Parental supervision plays a vital role in reducing the screen time of children compared with occupation.

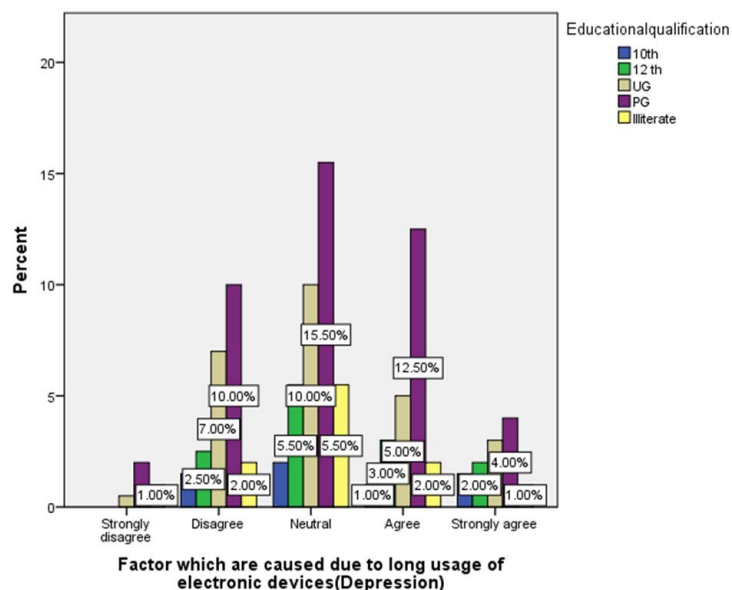
Fig 4



Legend:

In fig 4, Anxiety as a factor which is caused due to long usage of electronic devices is compared with occupation.

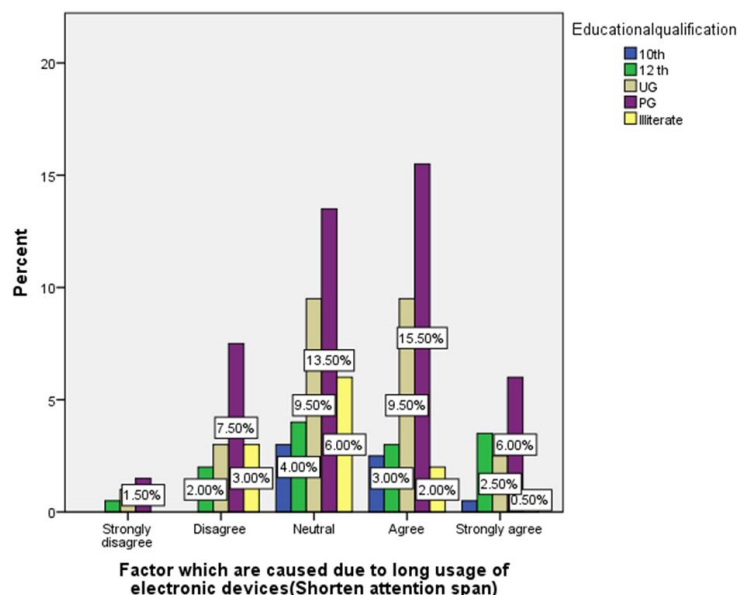
Fig 5



Legend:

In fig 5, Depression as a factor which is caused due to long usage of electronic devices is compared with educational qualifications.

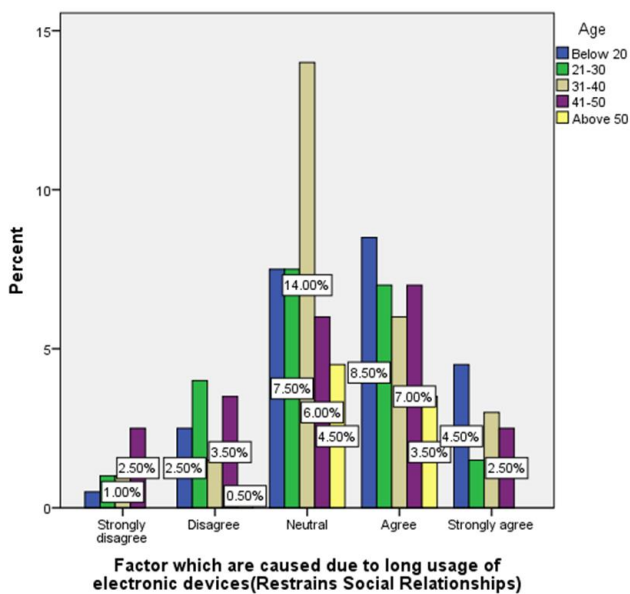
Fig 6



Legend:

In fig 6, Shorten attention span as a factor which is caused due to long usage of electronic devices is compared with educational qualification.

Fig 7

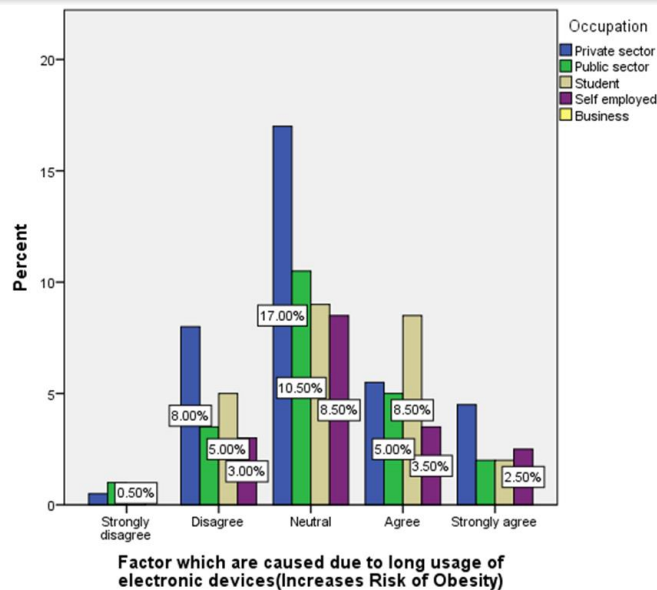


Legend:

In fig 7, Restraining social relationships as a factor which is caused due to long usage of electronic devices is compared with age.

Fig

8



Legend:

In fig 8, Increases risk of obesity as a factor which is caused due to long usage of electronic devices is compared with occupation.

RESULTS:

7.5% respondents who belongs to 31-40 years have rated 7 at the most, 7.5 % had rated 5 at the most from 41-50 years (fig 1), 8% of below 20, 9% of 21- 30 years respondents had agreed , 4% of below 20, 1.5% of 21-30, 4% of 31-40 had strongly agreed (fig 2). 8% of the private sector , 4% of the public sector, 5% of students, 3% of self -employed had disagreed, whereas 5.5% of the private sector , 8.5% of the public sector, 3.5% of self-employed had agreed (fig 3). 8% of the private sector, 5% of the public sector, 4.5 % of students had disagreed where 7% of the self employed and business sector, 5% of the public sector , 5.5% of the private sector had agreed (fig 4). 12.5% of post graduates, 5% of UG, 3 % of 12th students had agreed whereas 10% of pg graduates, 7% of undergraduate students had disagreed (fig 5). 15.5% of postgraduate, 9.5% undergraduate respondents had agreed whereas 7.5% postgraduate, 3% of illiterate, 3 % of undergraduate, 2% of 12th students had disagreed (fig 6). 8.5% of below 20 years, 7% of respondents belongs to 21- 30 and 41- 50, 6% of

respondents belongs to 31- 40 had agreed it (fig 7). 8% of private sector, 4% of public sector, 5% of students, 3 % of self employed had disagreed whereas 8.5% of students, 5% of public and 5.5% of private sector and 3% of self employed had agreed (fig 8).

DISCUSSION:

From the fig 1 - fig 8, it is observed that most of the respondents had stated that physical activities are bound to result in delayed physical development as most of the parents are encouraging the children to play with the mobile rather than allowing them to play outside, so it may cause a defect in their physical development. Most of the respondents who belong to the age group of 21-30 had agreed the most as they use their mobile phones most of the time and they might also be aware of the negative impact that it could affect the brain and the DNA development. Most of the parents are not supervising their children whether they are using their phones properly , which might also lead to commission of crime. Most of the people didn't allow their children to play with their friends due to the lockdown so there might be some relationship gaps between the friends and also leads to diseases like anxiety and depression and they had started to take pills for depression which also lead them addicted to it. If the child is not playing and if he uses only the phone , it might also lead to obesity in their childhood itself and many children are wearing their specs in their early childhood.

LIMITATIONS:

There are some limitations while doing this particular paper , As many students as well as the children faces many problems, this paper targets many groups like private sector employees as well as business people , and the sample size is very less as the sample size is 250, it won't be possible to analyse with this sample size.

CONCLUSION:

It is concluded that most of the respondents have stated that most of the children nowadays use electronic devices rather than playing outside. And the parents are also encouraging them to use the electronic gadgets even though they are aware of the problems which are faced by them and many children on the result wear specs in their childhood and most of them are doing laser operation in their childhood itself And it is observed that many respondents faced depression and anxiety in the lockdown as they were not able to meet any fellow beings or friend , they have only their mobile phones for their interaction and for their company and time pass , so because of that they were resulting to the headache and cancer and resulting hormone infertility for both men and the women. And also it leads to child obesity as many of them not playing or not having any physical activity leads to obesity for them. Most of the people didn't allow their children to play with their friends due to the lockdown so there might be some relationship gaps between the friends and also leads to diseases like anxiety and depression and they had started to take pills for depression which also lead them addicted to it. If the child is not playing and if he uses only the phone , it might also lead to obesity in their childhood itself and many children are wearing their specs in their early childhood. The government also needs to take a better acts to protect the children in the public places.

It also leads to blood brain barrier , cancer, fertility and reproduction, electromagnetic hypersensitivity, glucose metabolism.

SUGGESTIONS:

The main suggestions of this study is to make the parents aware of the threats because of the usage of the electronic devices. The parents must allow their children to play outdoor games so that they could also get the vitamins and minerals which are in the soil and they could be

more immune. As both the parents are working, they give a mobile to the child to be quite and they continue with their works, so this must be avoided, the phone must be given only in the important cases, even though there are many features to learn in the mobile, they must not give the mobiles to them and they must spend some time with their loved children, so that they could not feel lonely and without the parents support, the child will not get their destiny.

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