

Title:

**RELATION BETWEEN MUSCLE FATIGUE AND TIME
USE OF SMARTPHONE IN SCHOOL AGE CHILDREN**

NCT: not yet assigned

Document Date : 12/11/2019

<p>FACULTY OF PHYSICAL THERAPY APPLICATION FOR ETHICAL REVIEW</p>

NOTES:

- Answers to questions must be entered in the space provided.
- An electronic version of the completed form should be submitted to the Research Ethics Officer, at the following email address: pt.ethical@pt.cu.edu.eg. Please **do not** submit paper copies.
- If you have any queries about the form, please address them to the [Research Ethics Team](#).

FACULTY OF PHYSICAL THERAPY APPLICATION FOR ETHICAL REVIEW

OFFICE USE ONLY:

Application No:

Date Received:

1. TITLE OF PROPOSAL

RELATION BETWEEN MUSCLE FATIGUE AND TIME USE OF SMARTPHONE IN SCHOOL AGE CHILDREN

2. THIS PROPOSAL IS:Physical Therapy Staff Research **Proposal** ☐Physical Therapy Postgraduate Research (PGR) ☒ Student Proposal ☒Master ☐Doctoral ☒Other ☐Other ☐ (Please specify):**3. INVESTIGATORS**

a) PLEASE GIVE DETAILS OF Student (FOR PGR STUDENT PROPOSAL) or first author for staff Research Proposal

Name: Title / first name / family name	Rana nabil hussien
Highest qualification & position held:	MSc. Of Pediatric Physical Therapy, Assistant Lecturer at MTI University
Department/ Faculty/ University	Pediatrics/Physical Therapy/MTI university
Telephone:	+2 01061164676
Email address:	Rozo_elagouz25 @yahoo.com

a) PLEASE GIVE DETAILS OF ANY CO-SUPERVISORS OR CO-INVESTIGATORS (FOR PGR STUDENT PROPOSAL) or co- first author for staff Research Proposal b)

Name: Title / first name / family name	Prof. AMIRA EL-TOHAMY
Highest qualification & position held:	Professor
Department/ Faculty/ University	Pediatrics/Physical Therapy/ Cairo University
Telephone:	
Email address:	amiraeltahamy@yahoo.com

Name: Title / first name / family name	DR. MOHAMED HAMED RASHAD
Highest qualification & position held:	Lecturer of Neurology
Department/ Faculty/ University	Pediatrics/Medicine/ Cairo University
Telephone:	
Email address:	

4. SUMMARY OF PROPOSAL

To investigate the electrical muscle activity during used mobile phone

PURPOSE:

- • To investigate the electrical muscle activity during used mobile phone
- To investigate the most durable time to use smart phone
- To avoid development of abnormal posture by used smart phone

BACKGROUND:

Using a smart phone while adopting a poor posture can cause various physical problems. The neck and shoulders are particularly vulnerable to pain due to smart phone use, with the muscles showing a high level of muscle fatigue, resulting in exhaustion and pain, Therefore, determining the durable time to use the smart phone will protect us from abnormal posture and protect our muscle and ligaments.

Furthermore avoid the incorrect position of use smartphone position.

HYPOTHESES:

- There are no statistical significant relation between time of used smart phone and muscle fatigue.

RESEARCH QUESTION:

Is there a relation between time use of smart phone and muscle fatigue?

5. CONDUCT OF PROJECT

Please give a description of the research methodology that will be used

1-Electromyography (EMG) will be used to measure mean square (RMS) and maximum voluntary isometric contraction (MVIC)

6. PARTICIPANTS AS THE SUBJECTS OF THE RESEARCH

Describe the number of participants and important characteristics (such as age, gender, intellectual ability etc.). Specify any inclusion/exclusion criteria to be used.

one hundred fifty healthy children of both genders will participate in this study. Activity

Note: Attach a copy of any poster(s), advertisement(s) or letter(s) to be used for recruitment.

Inclusion criteria:

-Inclusion criteria:

1. Their ages ranges from 12-14 years.
2. Subjects of school age childhood.
3. Not rolled on any regular athletic activity.
4. Children should be at the same socioeconomic level.

-Exclusion criteria:

1. Individual with neck pain
2. Any upper limb and spinal deviation.
3. Worker children.

8. CONSENT

Describe the process that the investigator(s) will be using to obtain valid consent. If consent is not to be obtained explain why. If the participants are minors or for other reasons are not competent to consent, describe the proposed alternate source of consent, including any permission / information letter to be provided to the person(s) providing the consent.

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Note: Attach a copy of the Consent Form, Participant Information Sheet (if applicable).

PARTICIPANT WITHDRAWAL

a) Describe how the participants will be informed of their right to withdraw from the project.

They can withdraw at anytime without prejudice to them as mention in signed consent.

- b) Explain any consequences for the participant of withdrawing from the study and indicate what will be done with the participant's data if they withdraw.

No consequences will take place. They have the utmost freedom.

9. CONFIDENTIALITY

- a) Will all participants be anonymous? Yes ☒ No ☐
- b) Will all data be treated as confidential? Yes ☒ No ☐

Note: Participants' identity/data will be confidential if an assigned ID code or number is used, but it will not be anonymous. Anonymous data cannot be traced back to an individual participant.

10. SIGNIFICANCE/BENEFITS

Outline the potential significance and/or benefits of the research

Delay in the treatment of extended Erb's palsy may result in substantial and chronic impairment due to many causes. One of the causes is the imbalance between the recovery of elbow flexors and elbow extensors where the latter will be delayed. This study will determine if a debilitating tightness and contracture (elbow flexion) can be prevented using the kinesiology tape in infants with Extended Erb's Palsy.

11. RISKS

Outline any potential risks to **INDIVIDUALS**, including research staff, research participants, other individuals not involved in the research and the measures that will be taken to minimise any risks and the procedures to be adopted in the event of mishap

Risk of Infection: minimizing the risk through adequate sterilization of the treated areas during evaluation and treatment.

12. DECLARATION BY APPLICANTS

I submit this application on the basis that the information it contains is confidential and will be used by the Faculty of Physical Therapy for the purposes of ethical review and monitoring of the research project described herein, and to satisfy reporting requirements to regulatory bodies. The information will not be used for any other purpose without my prior consent.

I declare that:

- The information in this form together with any accompanying information is complete and correct to the best of my knowledge and belief and I take full responsibility for it.
- I will report any changes affecting the ethical aspects of the project to the Faculty of Physical Therapy Research Ethics Officer.
- I will report any adverse or unforeseen events which occur to the relevant Ethics Committee via the Faculty of Physical Therapy Research Ethics Officer.

Name of Principal investigator/project supervisor:

Rana nabil hussien

Prof. Amara El-Tohamy

Date:

12 of novamember, 2019

Preflight Results

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