

# Effectiveness of low-level electric current water bath on subjects with chronic non-specific neck pain

<b>Submission date</b> 01/02/2020	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered
<b>Registration date</b> 05/02/2020	<b>Overall study status</b> Completed	<input type="checkbox"/> Protocol
<b>Last Edited</b> 22/10/2020	<b>Condition category</b> Musculoskeletal Diseases	<input type="checkbox"/> Statistical analysis plan
		<input checked="" type="checkbox"/> Results
		<input type="checkbox"/> Individual participant data

## Plain English summary of protocol

### Background and study aims

Neck pain is one of the world's leading causes for the years lived with disability. Ambiguity in the effect of electrotherapy modalities for the treatment of Chronic Non-Specific Neck Pains (CNSNP) needs to be studied further.

A number of treatments are widely prescribed for chronic pain syndromes and are not fully effective. In clinical practice, the effectiveness of electrotherapy is limited in particular to hydro galvanic bath therapy in the management of chronic pain syndromes, which needs to be evaluated.

**Aim:** This study aims to evaluate whether hydro galvanic therapy can be beneficial in decreasing pain, pain pressure threshold and increasing quality of life in subjects with chronic nonspecific neck pain.

### Who can participate?

Patients aged 18 years or above with chronic non-specific neck pain.

### What does the study involve?

Subjects will be divided at random into to study group and the control group. The subjects in the study group will receive a hydro-galvanic bath along with exercises and control group subjects will receive Trans-cutaneous Electrical Nerve Stimulation (TENS) along with exercises for 4 sessions per week for 12 weeks.

### What are the possible benefits and risks of participating?

The subjects will be getting 12 weeks of hydrogalvanic bath treatment without any cost. Along with this, they will be getting free consultation, assessment and exercise programs from experienced therapists. There is no risk involved due to our treatment it is absolutely safe for them.

### Where is the study run from?

King Khalid University (Saudi Arabia)

When is the study starting and how long is it expected to run for?  
February 2019 to May 2020

Who is funding the study?  
King Khalid University (Saudi Arabia)

Who is the main contact?  
Dr Jaya Shanker Tedla  
jtedla@kku.edu.sa

## Contact information

**Type(s)**  
Public

**Contact name**  
Dr Jaya Shanker Tedla

**Contact details**  
C/3/108, Guraiger  
King Khalid University  
Abha  
Saudi Arabia  
61421  
+966 (0)538901083  
jtedla@kku.edu.sa

## Additional identifiers

**Protocol serial number**  
HA-06-B-001

## Study information

**Scientific Title**  
Effectiveness of hydro galvanic bath on improving pain, disability and quality of life in subjects with chronic non-specific neck pain: a randomized control trial

**Study objectives**  
The hydro galvanic bath will be effective in improving pain, disability and quality of life in subjects with chronic non-specific neck pain

**Ethics approval required**  
Old ethics approval format

**Ethics approval(s)**  
Approved 11/02/2019, The scientific research ethics committee of King Khalid University (Deanship of Scientific Research, 3rd floor, Building D, King Khalid University, Guraiger, Abha - 61481, Kingdom of Saudi Arabia; +966 17 2418336; ecm@kku.edu.sa), ref: HA-06-B-001

**Study design**

Interventional randomized controlled trial

**Primary study design**

Interventional

**Study type(s)**

Treatment

**Health condition(s) or problem(s) studied**

Chronic non-specific neck pain

**Interventions**

The subjects will be divided into to study group and the control group by block randomization.

The subjects in the study group will receive a hydro-galvanic bath along with exercises. Control group subjects will receive Trans-cutaneous Electrical Nerve Stimulation (TENS) along with exercises for 4 sessions per week for 12 weeks.

Outcome measures: Pain by Visual Analog Scale (VAS), Disability by Neck Disability Index, and Quality of Life by Short form 36 (SF-36) will be evaluated pre and post 12 weeks intervention.

**Intervention Type**

Device

**Phase**

Not Applicable

**Drug/device/biological/vaccine name(s)**

Hydro galvanic bath

**Primary outcome(s)**

Pre and post 12 weeks intervention:

1. Pain with Visual Analog Scale (VAS)
2. Disability with Neck Disability Index (NDI)
3. Quality of life with Short Form-36 (SF-36)

**Key secondary outcome(s))**

Age at disease onset

**Completion date**

11/05/2020

**Eligibility****Key inclusion criteria**

Chronic non-specific neck pain

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Sex**

All

**Total final enrolment**

34

**Key exclusion criteria**

1. Malignancy
2. Neurological issues
3. Headaches with a specific diagnosis
4. Trauma
5. Infections
6. Skin cuts on upper limbs

**Date of first enrolment**

25/02/2019

**Date of final enrolment**

31/10/2019

**Locations****Countries of recruitment**

Saudi Arabia

**Study participating centre****King Khalid University**

Physical Therapy Out-Patient Clinic

Gate 5, Building C

Guraiger

Abha

Saudi Arabia

61421

**Sponsor information****Organisation**

King Khalid University

ROR

<https://ror.org/052kwzs30>

## Funder(s)

### Funder type

University/education

### Funder Name

King Khalid University

### Alternative Name(s)

, KKU

### Funding Body Type

Government organisation

### Funding Body Subtype

Universities (academic only)

### Location

Saudi Arabia

## Results and Publications

### Individual participant data (IPD) sharing plan

The current data sharing plans for this study are unknown and will be available at a later date.

### IPD sharing plan summary

Data sharing statement to be made available at a later date

### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Results article</a>	results	06/10/2020	22/10/2020	Yes	No