EFFECTS OF GRASTON INSTRUMENT SOFT TISSUE MOBILIZATION IN PATIENTS WITH SCIATIC NERVE ENTRAPMENT

Protocol summary

Study aim
To determine the effect of graston instrument soft tissue mobilization in patients with sciatic nerve entrapment.

Design
Randomized Clinical Trial

Settings and conduct
Fatima Memorial Hospital Shadman Lahore.

Participants/Inclusion and exclusion criteria

Intervention groups
Group A: Participants will receive graston instrument soft tissue mobilization. Group B: Participants will receive combine treatment of graston instrument technique with lumbar traction and neural mobilization.

Main outcome variables
Numeric Pain Rating Scale (Pain) Modified Oswestry Disability Index (Functional Disability)

Reason for update
Acronym
EOGISTMIPWSNE
IRCT registration information
IRCT registration number: IRCT20191130045554N1
Registration date: 2020-01-20, 1398/10/30
Registration timing: registered_while_recruiting

Registration date
2020-01-20, 1398/10/30
Registration count: 0

Registrant information
Name
Muhammad Shahzad Qadree
Name of organization / entity
Riphah International University QIE Campus Lahore
Country
Pakistan
Phone
+92 42 35126110
Email address
shhzdqadree@gmail.com

Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2019-12-02, 1398/09/11
Expected recruitment end date
2020-03-03, 1398/12/13
Actual recruitment start date
empty
Actual recruitment end date
empty
Trial completion date
empty

Scientific title
EFFECTS OF GRASTON INSTRUMENT SOFT TISSUE MOBILIZATION IN PATIENTS WITH SCIATIC NERVE ENTRAPMENT

Public title
EFFECTS OF GRASTON INSTRUMENT SOFT TISSUE MOBILIZATION IN PATIENTS WITH SCIATIC NERVE ENTRAPMENT

Purpose
Treatment

Inclusion/Exclusion criteria

Inclusion criteria:
- Onset of radicular low back pain of less than 12 weeks.
- Pain upon active SLR in 30-70°. Sensitivity: 0.67 (11)
- Specificity: 0.26 (12)
- Age group in range of 30-60 years.
- Male only.
- Sciatic nerve entrapment diagnosed on MRI.

Exclusion criteria:
- Spinal Fracture.
- Spinal tumor or any malignancy.
- Psychiatric Disorder.
- History of Osteoporosis.
- Rheumatologic disorders.
- Pain beyond 70° or below 30° on active SLR.
- Positive compression and distraction test of SI joint.
- Positive gaensien’s test
- Any red flags.

Age
- From 30 years old to 60 years old

Gender
- Male

Phase
- N/A

Groups that have been masked
- Outcome assessor

Sample size
- Target sample size: 18

Randomization (investigator's opinion)
- Randomized

Randomization description
- Patient will be recruited into Group A and Group B by lottery method (without replacement).

Blinding (investigator's opinion)
- Single blinded

Blinding description
- Single Blinded

Placebo
- Not used

Assignment
- Parallel

Primary outcomes

1
- Description
- Pain

Timepoint
- Treatment will be given to both groups for 4 weeks, 3 sessions per week and post treatment evaluation will be done after two weeks and follow up evaluation after one month by NPRS.

Method of measurement
- Numeric Pain Rating Scale

Secondary outcomes

empty

Intervention groups

1
- Description
- Intervention group A: Graston technique with help of graston instrument is applied (3 sessions per week for 4 weeks)

Category
- Treatment - Other

2
- Description
- Intervention group B: Graston technique along with lumbar traction (Mechanical) and neural mobilization. (3 sessions per week for 4 weeks)

Category
- Treatment - Other
## Recruitment centers

1

**Recruitment center**

Name of recruitment center  
Fatima Memorial Hospital Shadman Lahore  
**Full name of responsible person**  
Dr Farhia Shah  
**Street address**  
Shadman Rd, Ichhra Lahore, Punjab 54000  
**City**  
Lahore  
**Postal code**  
54000  
**Phone**  
+92 42 35940444  
**Email**  
farhia@gmail.com

---

## Sponsors / Funding sources

1

**Sponsor**

Name of organization / entity  
Riphah International University QIE Campus  
**Full name of responsible person**  
Dr Syed Shakeel ur Rehman  
**Street address**  
13-14-C-Civic Centre, Near Hamdard Chowk, Township  
Lahore  
**City**  
Lahore  
**Postal code**  
54000  
**Phone**  
+92 42 35126110  
**Fax**  
shakil.urrehman@riphah.edu.pk  
**Email**  
shakil.urrehman@riphah.edu.pk

---

## Person responsible for general inquiries

**Contact**

Name of organization / entity  
Riphah International University QIE Campus  
**Full name of responsible person**  
Muhammad Shahzad Qadree  
**Position**  
Student  
**Latest degree**  
Bachelor  
**Other areas of specialty/work**  
Physiotherapy  
**Street address**  
13-14-C Civic Centre Near Hamdard Chowk Township  
Lahore  
**City**  
Lahore  
**Province**  
Punjab  
**Postal code**  
54000  
**Phone**  
+92 42 35126110  
**Email**  
shhzdqadree@gmail.com

---

## Person responsible for scientific inquiries

**Contact**

Name of organization / entity  
Riphah International University QIE Campus  
**Full name of responsible person**  
Prof. Dr. Syed Shakeel ur Rehman  
**Position**  
Professor  
**Latest degree**  
Ph.D.  
**Other areas of specialty/work**  
Physiotherapy  
**Street address**  
13-14-C Civic Centre Near Hamdard Chowk Township  
Lahore  
**City**  
Lahore  
**Province**  
Punjab  
**Postal code**  
54000  
**Phone**  
+92 42 35126110  
**Email**  
shakil.urrehman@riphah.edu.pk

---

## Person responsible for updating data

**Contact**

Name of organization / entity  
Riphah International University QIE Campus  
**Full name of responsible person**  
Muhammad Shahzad Qadree
Position
Student

Latest degree
Bachelor

Other areas of specialty/work
Physiotherapy

Street address
13-14-C-Civic Centre Near Hamdard Chowk Township
Lahore

City
Lahore

Province
Punjab

Postal code
54000

Phone
+92 302 8350237

Email
shhzdqadree@gmail.com

Sharing plan

Deidentified Individual Participant Data Set (IPD)
Undecided - It is not yet known if there will be a plan to make this available

Study Protocol
Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan
Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form
Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report
Undecided - It is not yet known if there will be a plan to make this available

Analytic Code
Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary
Undecided - It is not yet known if there will be a plan to make this available