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## A study to compare the effects of craniocervical flexion exercises and scapular stabilization exercises on pain, disability and Scapular Dyskinesia among patients with chronic mechanical neck pain

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**Background:** Mechanical neck pain is pain in the cervical region accompanied by restriction of range of motion and functional disability. Muscles have decreased strength, endurance, force steadiness and cervical muscle behaviour is altered e.g., decreased activity of deep postural muscles, reduced directional specificity, delayed onset of muscle responses, muscle fatigability and increased neck muscle co-contraction. From last years, it has become vast pain problem and causes immense limitation. Neck and shoulder are interconnected areas, making it easy for pain to radiate that eventually leads to shoulder pain. So therefore, it causes the shoulder causes weakness or imbalance which eventually affects the position of the scapula. This, in tum can cause limited mobility and shoulder blade pain occurs which leads to scapular dyskinesia. Scapular dyskinesia is referring as abnormal static position and or dynamic movement of the scapula. Therefore, in this line of thought, the present study is designed compare the effects of craniocervical flexion exercises and scapular stabilization on pain, disability and Scapular Dyskinesia among patients with chronic-mechanical neck pain.

**Methodology:** A minimum of 45 subjects (both male and female) were recruited and subsequently divided into 3 groups. Group A received Stretching exercises for pectoralis minor, upper trapezius and sternocleidomastoid. Group B received Craniocervical flexion exercises which consisted of strengthening exercises for deep neck flexors. Group C received Scapular Stabilization exercises for serratus anterior, middle trapezius and lower trapezius. All patients were treated for 12 sessions (3sessions/ week) every other day for 4 weeks.

**Result:** Both groups had significant improvement in all the measured variables. Scapular stabilization exercises were more effective than craniocervical flexion exercises in increasing neck transverse mobility. However, there was no significant difference between groups in neck pain severity, functional disability, neck saggital and coronal mobility.

### References

1. Filiz Özdemir, Şeyma Toy, Effects of scapular stabilization exercises in patients of chronic neck pain with scapular dyskinesia: A quasi-experimental study, Turkish Journal of Physical Medicine and Rehabilitation, Vols. 63 to 68; 2017 to 2022.
2. Nihan Özünlü Pekyavaş, Zuhail Kunduracılar, The relationship between scapular dyskinesia, pain, range of motion, and flexibility in patients with neck and shoulder problems, Agri. 2014;26(3):119-25.
3. SinHo Chung, Yeon-Gyu Jeong, Effects of the craniocervical flexion and isometric neck exercise compared in patients with chronic neck pain: A randomized controlled trial, Physiother Theory Pract. 2018 Dec;34(12):916-925.

### Biography

Lovennet Kaur is a highly skilled and dedicated physiotherapist based in Paramjit Hospital Begowal, a healthcare facility located in the city of Begowal in the Indian state of Punjab. She has established herself as a trusted name in the field of physiotherapy and has been serving patients with her expertise for several years. She had completed her Bachelor's degree in Physiotherapy from a reputed institution in India. After that, she is pursuing a Master's degree in the same field to further enhance her knowledge and skills.

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