NEUROMUSCULAR TRAINING FOR STABILISATION OF THE CERVICAL SPINE

Level 1 – Basic Stability

1A. Lateral muscle stabilization with hand resistance



Initial position: Standing, upright position, double chin. Place the hand on one side of the head. Start in neutral position of the head. **Execution:** Slightly push with the hand and resist with the head to disable movement of

the head. Do not raise shoulders. **2x30 sec and 10 sec break.**

1B. Anterior muscle stabilization



Initial position: Place the theraband under slight tension behind the head, hold it with both hands.

Execution: Make a double chin. Slowly "push" the head towards the theraband, the head makes a small movement.

3x10 sec with 10 sec break.

1C. Posterior muscle stabilization Initial position: Lying on the stomach, mat. Arms lying sideways beside the



Execution: Slowly lift the head off. Do a double chin. Head remains in line with the spine.

3x10 sec with 10 sec break.

Level 2 – Functional Control

2A. Lateral muscle stretch with constant resistance

Initial position: Standing. Upright position. Take a theraband in both hands and hold it shoulder-width apart.

Execution: Move the theraband up and down while pulling the shoulder blades back.

2x10 sec with 10 sec break.

2B. Stabilization of the shoulder girdle

Initial position: Standing. Take a theraband in both hands and hold it shoulder-width apart. **Execution:** Do a double chin stand and push the shoulder blades back and pull the theraband slightly apart.

2x10 sec with a 10-sec break.

Level 3 – Dynamic Integration



3A. Lateral muscle stabilization with theraband resistance

Initial position: Standing. Upright position. Place the theraband behind the head, hold it with one hand on the side an put it under tension.

Execution: Slowly do a double chin and, "push" the head toward the left or right, without moving the head. Switch sides for the next set. **2x10 sec with 10 sec break.**



3B. Rotational muscle stabilization

Initial position: Standing. Upright position. Place the theraband behind the head, hold it with both hands.

Execution: Put the theraband under slight tension. Move the arm outwards. Slowly do a double chin, and turn the head to the other side against the resistance of the theraband. **3x10 sec with 10 sec break.**



3C. Posterior muscle stabilization with theraband resistance

Initial position: Lying on the stomach, mat. Fix the theraband with both hands. Execution: Do a double chin. Put the theraband under tension behind the head. Slowly lift the head against the resistance (chest does not lift).

3x10 sec with 10 sec break.



- Level 1: static, low load, focus on posture/coordination.
- Level 2: functional posture + light movement/co-activation.
- Level 3: multiplanar/dynamic, defined resistance, rotations/anti-rotation (anti-movement).

