

**Table S2.** List of the 31 included studies in the full-text review.

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- Excluded through full-text inspection (N = 26)
    - Due to criterion 1: No assessment of head or neck alignment or no use of a lumbar or pelvic support (n = 20) [1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20]
    - Due to criterion 3: Use of interventions other than a lumbar roll (n = 1) [21]
    - Due to criterion 4: Comparisons two different chairs (n = 5) [22,23,24,25,26]
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- Included through full-text inspection (N = 5) [27,28,29,30,31]
    1. Swartz, E.E.; Nowak, J.; Shirley, C.; Decoster, L.C. A comparison of head movement during back boarding by motorized spine-board and log-roll techniques. *J Athl Train* **2005**, *40*, 162-168.
    2. Rempel, D.; Barr, A. A universal rig for supporting large hammer drills: reduced injury risk and improved productivity. *Saf Sci* **2015**, *78*, 20-24.
    3. Menotti, F.; Labanca, L.; Laudani, L.; Giombini, A.; Pigozzi, F.; Andrea, M. Activation of neck and low-back muscles is reduced with the use of a neck balance system together with a lumbar support in urban drivers. *PLoS ONE* **2015**, *10*, e0141031-e0141031.
    4. Lopez-Valdes, F.J.; Forman, J.L.; Ash, J.H.; Kent, R.; Alba, J.J.; Segui-Gomez, M. Assessment of a head support system to prevent pediatric out-of-position: an observational study. *Ann Adv Automot Med* **2013**, *57*, 297-310.
    5. Leinonen, V.; Kankaanpää, M.; Vanharanta, H.; Airaksinen, O.; Hänninen, O. Back and neck extensor loading and back pain provocation in urban bus drivers with and without low back pain. *Pathophysiology* **2005**, *12*, 249-255.
    6. Truszczyńska, A.; Lewkowicz, R.; Truszczyński, O.; Rapala, K.; Wojtkowiak, M. Back pain in Polish military helicopter pilots. *Int J Occup Med Environ Health* **2012**, *25*, 258-264.
    7. Alperovitch-Najenson, D.; Katz-Leurer, M.; Santo, Y.; Golman, D.; Kalichman, L. Upper body quadrant pain in bus drivers. *Arch Environ Occup Health* **2010**, *65*, 218-223.
    8. Kingma, I.; van Dieën, J.H. Car driving with and without a movable back support: Effect on transmission of vibration through the trunk and on its consequences for muscle activation and spinal shrinkage. *Ergonomics* **2009**, *52*, 830-839.
    9. Lange, B.; Nielsen, R.T.; Skejød, P.B.; Toft, P. Centrifuge-induced neck and back pain in F-16 pilots: a report of four cases. *Aviat Space Environ Med* **2013**, *84*, 734-738.
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    11. Sovelius, R.; Oksa, J.; Rintala, H.; Siitonen, S. Neck and back muscle loading in pilots flying high G(z) sorties with and without lumbar support. *Aviat Space Environ Med* **2008**, *79*, 616-619.
    12. Kuster, R.P.; Bauer, C.M.; Oetiker, S.; Kool, J. Physiological motion axis for the seat of a dynamic office chair. *Hum Factors* **2016**, *58*, 886-898.
    13. Kawoosa, A.A.; Wani, I.H.; Basit, S.; Dar, F.A.; Mumtaz, E.U.; Eafiq, M. Reconstruction of unstable hips with Ilizarov technique. Role of pelvic support and distal lengthening realignment osteotomy. *Ortop Traumatol Rehabil* **2015**, *17*, 481-487.
    14. Horodyski, M.; Conrad, B.P.; Del Rossi, G.; DiPaola, C.P.; Rechline, G.R. 2nd. Removing a patient from the spine board: is the lift and slide safer than the log roll? *J Trauma* **2011**, *70*, 1282-1285.
    15. Sawada, N.; Hatta, T.; Kishigami, H.; Shimizu, M.; Yoda, T.; Goda, H. The effect of a newly developed wheelchair with thoracic and pelvic support on cervical movement and muscle activity in healthy elderly women. *European Geriatric Medicine* **2015**, *6*, 286-290.
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29. Yeoung-Sung, K.; Han-Kyu, P.; Min-Chull, P. Research the effects of thoracic and lumbar support fixtures on forward head posture during visual display terminal work. *J Korean Soc Phys Med* **2016**, *11*, 41-47.

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