

Short Communication

Non-invasive Soundwave Care Innovates Neurospinal Diagnostics and Treatment Through Mechanical Engineering and Patented Instrument Technology

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Abstract

As the digital age continues to increase the use of cell phone texting and gaming, sitting at a computer, reading on digital tablets, and other technology positions that compromise spinal posture and can create cumulative potential effects on cervical spine health, there has been an emerging trend of focused research, in diagnostics, and treatment options for managing and preventing cervical spine problems. In 2023, a published study found that nearly 79% of people evaluated in a multi-clinic retrospective analysis had a misaligned (“subluxated”) head-to-neck relationship that was associated with neurovascular examination findings consistent with imbalances [1]. This prevalence indicates a potentially significant clinically relevant finding and has led to more concentrated procedures for detecting and correcting vertebral subluxations. One of the leading procedures in this arena is the EPIC technique spinal procedure of Soundwave Care [2].

Discussion

Soundwave Care uses the EPIC spinal technique to focus on the structural head-to-neck alignment and the implications this area has on brain, neurological, and spinal health. Through neurovascular physical examination indicators, the presence or absence of an upper cervical subluxation can be determined. Once determined to be present, further diagnostics are applied. Soundwave Care’s advanced diagnostics include a digital engineering assessment of the patient’s structural uniqueness. This analysis includes a developmental evaluation, called the “epigenetic profile”, (a structural asymmetry profile as termed by the method), to determine shape, asymmetry, and normal alignment, followed by a biomechanical assessment of those structures, called the “misalignment profile”. These 2 profiles are obtained using an engineering CAD overlay software of either 2D digital radiographs viewing pixels taken from 3 dimensions of view, or from a 3D Cone-beam Computerized Tomography (CBCT). The data from these profiles is combined to provide the biomechanical influences, calibrating coordinates, and exact targeting location for which to precisely and non-invasively align each patient.

Soundwave Care then uses a gentle, non-invasive single sound impulse to align the upper cervical spine to reduce the biomechanical misalignments and improve the neurovascular indicators. This sound impulse is applied with the Integrity Genesis adjusting instrument with patented 3-axis calibration and laser targeting method. The single sound impulse is administered at 61.5 dB, 2.5 kHz traveling at 345 m/s² (reported impulse characteristics) to create a .07-.08 m/s² linear acceleration impulse force that is intended to influence joint position and motion within normal physiologic limits. Post digital imaging and examination indicators are taken to assess adequacy of change, and follow up evaluations are established case by case for managing recovery [3]. Numerous published studies report an established correlation between upper cervical alignment and vascular blood flow to and from the brain. This seems to indicate that there is a potential positive benefit to cognitive performance and brain health through maintaining adequate upper cervical alignment. With the primary drainage vein of the brain being the Internal Jugular Vein (IJV) that rests directly in front of the top cervical vertebrae as it exits the skull, it has been shown that in some individuals a rotational subluxation of the upper cervical spine may alter the IJVs ability to drain the brain efficiently. The correlating pressure backlog may disrupt adequate drainage which can then stagnate the removal of neurotoxin by the cerebral spinal fluid (CSF) through the glymphatic system. This may result in unilateral CSF build up in the brain and associated neurologic dysfunction as demonstrated in a case study of ocular dysfunction resolved through upper cervical alignment with EPIC [4]. Ultimately, a “congested brain” may have the increased propensity for accelerated deterioration.

There is also an additional anatomical consideration of increased prevalence of styloid process elongation which is anterior to the IJV. A study published in 2025 revealed a surprisingly high percentage of the population assessed (84%) had elongated styloid processes. When the head is flexed down, the elongated styloid processes can then press backward into the IJV, further compressing it for the 79% of people already having upper cervical subluxations. Therefore, the anterior head carriage and flexion from the use of digital communication technologies appears to have the potential to increase “brain congestion” which may contribute to brain deterioration, neurological dysfunction, and unresolving pain syndromes [5].

Conclusion

Through upper cervical procedures like Soundwave Care and the EPIC technique, upper cervical subluxations can be detected and corrected safely, accurately, and non-invasively. Additional public education to elevate the position of digital technology to allow for our heads to be kept upright and viewing straight ahead may be able to minimize the potentially negative effects of living in a technology age.

Conflict of Interest

Nil

Endnotes

Nil

References

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