

1 **Clinical Practice Guideline:** **Sacro-Occipital Technique (SOT)<sup>TM</sup>**

2  
3 **Date of Implementation:** **July 13, 2006**

4  
5 **Product:** **Specialty**

6  
7  
8 **GUIDELINES**

9 American Specialty Health – Specialty (ASH) considers Sacro-Occipital Technique  
10 (SOT)<sup>TM</sup>, purported to affect cerebrospinal fluid (CSF) flow, as unproven due to  
11 insufficient evidence in the scientific literature to support clinical effectiveness.

12  
13 For more information, see *ASH Techniques and Procedures Not Widely Supported as*  
14 *Evidence Based (CPG 133 – S)* clinical practice guideline.

15  
16 Patients must be informed verbally and in writing of the nature of any procedure or  
17 treatment technique that is considered experimental/investigational or unproven, poses a  
18 significant health and safety risk, and/or is scientifically implausible. If the patient decides  
19 to receive such services, they must sign a *Member Billing Acknowledgment Form* (for  
20 Medicare use *Advance Beneficiary Notice of Non-Coverage form*) indicating they  
21 understand they are assuming financial responsibility for any service-related fees. Further,  
22 the patient must sign an attestation indicating that they understand what is known and  
23 unknown about, and the possible risks associated with such techniques prior to receiving  
24 these services. All procedures, including those considered here, must be documented in the  
25 medical record. Finally, prior to using experimental/investigational or unproven  
26 procedures, those that pose a significant health and safety risk, and/or those considered  
27 scientifically implausible, it is incumbent on the practitioner to confirm that their  
28 professional liability insurance covers the use of these techniques or procedures in the event  
29 of an adverse outcome.

30  
31 **DESCRIPTION/BACKGROUND**

32 Sacro-Occipital Technique (SOT)<sup>TM</sup> represents a variety of diagnostic and therapeutic  
33 procedures. SOT is predicated upon the existence of what proponents call the “cranial  
34 sacral respiratory system.” This system is said to exhibit regular respiration-like  
35 oscillations that are transmitted through the dura and thereby affect the flow of  
36 cerebrospinal fluid. Proponents believe SOT affects a wide range of neurological and other  
37 functions. They also posit the existence of a variety of complex motions among osseous  
38 and other structures of the skull that may affect health. The central therapeutic procedure  
39 employed is pelvic and spinal blocking. Padded, wedge-shaped blocks are placed under  
40 the pelvis and/or spine in order to affect desired changes in spinal alignment and motion  
41 (Cooperstein & Gleberzon, 2004).

1 Major Bertrand DeJarnette, DC, DO developed SOT in 1925. Dr. DeJarnette appears to  
 2 have based his system on the Osteopathic Cranial Technique developed by W.O.  
 3 Sutherland, DO. The origins of the currently popular CranioSacral Therapy™ of John  
 4 Upledger, DO, can also be linked to Sutherland’s techniques as well as to SOT.

## 6 **EVIDENCE REVIEW**

7 There is literature published by SOT practitioners that describes the techniques and  
 8 rationale for SOT. However, almost none of the literature evaluates the diagnostic or  
 9 therapeutic claims of this technique. There are no clinical trials, cohort studies, or clinical  
 10 case series involving more than five patients. The case studies reported do not permit any  
 11 conclusions to be drawn concerning the clinical effectiveness of SOT. A series of reliability  
 12 studies were performed to evaluate the intra- and inter-examiner reliability of 15 different  
 13 diagnostic tests employed in the SOT system (Leboeuf, 1991). Overall these tests  
 14 performed very poorly. The author concluded, “It appears unlikely that SOT tests can be  
 15 reproduced to a sufficiently high degree to constitute useful clinical procedures.” Other  
 16 reliability studies evaluating the cranial suture palpation procedures (Rogers et al., 1998;  
 17 Wirth-Pattullo & Hayes, 1994; Hanton et al., 1998; Moran and Gibbons, 2001;  
 18 Sommerfeld et al., 2004) also failed to demonstrate any clinically useful procedures. There  
 19 is no scientific evidence supporting the underlying theories of cranial sacral respiration and  
 20 related phenomena that underlie the SOT system (Bordoni et al. Part 1 and 2, 2020).

21  
 22 The application of SOT diagnostic or therapeutic procedures does pose safety risks.  
 23 Particularly with respect to the unconventional diagnostic system used by SOT, there is a  
 24 risk of substitution harm of valid diagnostic tests and diagnostic conclusions being  
 25 abandoned in favor of the SOT system.

## 27 **References**

- 28 Blum CL. Chiropractic Technique Summary: Sacro-Occipital Technique (SOT). 2011:  
 29 Retrieved on July 27, 2023 from [http://www.chiroaccess.com/Articles/Chiropractic-  
 30 TechniqueSummary--Sacro-Occipital-Technique-SOT.aspx?id=0000291](http://www.chiroaccess.com/Articles/Chiropractic-TechniqueSummary--Sacro-Occipital-Technique-SOT.aspx?id=0000291)  
 31  
 32 Bordoni B, Walkowski S, Ducoux B, Tobbi F. The Cranial Bowl in the New Millennium  
 33 and Sutherland's Legacy for Osteopathic Medicine: Part 1. *Cureus*. 2020 Sep  
 34 12;12(9):e10410. doi: 10.7759/cureus.10410  
 35  
 36 Bordoni B, Walkowski S, Ducoux B, Tobbi F. The Cranial Bowl in the New Millennium  
 37 and Sutherland's Legacy for Osteopathic Medicine: Part 2. *Cureus*. 2020 Sep  
 38 14;12(9):e10435. doi: 10.7759/cureus.10435

- 1 Cooperstein, R., Gleberzon, B. Chiropractic system techniques: sacro-occipital technique  
2 (SOT). In *Technique systems in chiropractic*. (pp. 209-220). London: Churchill  
3 Livingston; 2004  
4
- 5 Hanten WP, Dawson DD, Iwata M, Seiden M, Whitten FG, Zink T. Craniosacral rhythm:  
6 reliability and relationships with cardiac and respiratory rates. *J Orthop Sports Phys*  
7 *Ther.* 1998;27(3):213-218. doi:10.2519/jospt.1998.27.3.213  
8
- 9 Leboeuf C. The reliability of specific sacro-occipital technique diagnostic tests. *J*  
10 *Manipulative Physiol Ther.* 1991;14(9):512-517  
11
- 12 Moran RW, Gibbons P. Intraexaminer and interexaminer reliability for palpation of the  
13 cranial rhythmic impulse at the head and sacrum. *J Manipulative Physiol Ther.*  
14 2001;24(3):183-190  
15
- 16 Rogers JS, Witt PL, Gross MT, Hacke JD, Genova PA. Simultaneous palpation of the  
17 craniosacral rate at the head and feet: intrarater and interrater reliability and rate  
18 comparisons. *Phys Ther.* 1998;78(11):1175-1185. doi:10.1093/ptj/78.11.1175  
19
- 20 Sacro Occipital Research Society. Retrieved on August 11, 2023 from  
21 <https://sorsi.com/sot-methods/>  
22
- 23 Sommerfeld P, Kaider A, Klein P. Inter- and intraexaminer reliability in palpation of the  
24 "primary respiratory mechanism" within the "cranial concept". *Man Ther.*  
25 2004;9(1):22-29. doi:10.1016/s1356-689x(03)00099-7  
26
- 27 Wirth-Pattullo V, Hayes KW. Interrater reliability of craniosacral rate measurements and  
28 their relationship with subjects' and examiners' heart and respiratory rate  
29 measurements. *Phys Ther.* 1994;74(10):908-920. doi:10.1093/ptj/74.10.908