Clinical Practice Guideline:	Acupuncture for Smoking Cessation
Date of Implementation:	April 15, 2010
Product:	Specialty
GUIDELINES	
The literature is insufficient to con- ineffective for smoking cessation or to is superior to other smoking cessation cessation to assess effectiveness for it	nclude acupuncture is either clinically effective or that the outcome of acupuncture for smoking cessation tion interventions. Use of acupuncture for smoking individual patients may be appropriate in combination other evidence-based interventions have been deemed
For more information, see ASH Te Evidence Based (CPG $133 - S$) clinit	<i>cchniques and Procedures Not Widely Supported as</i> cal practice guideline.
Patients must be informed verbally and in writing of the nature of any procedure or treatment technique that is considered experimental/investigational or unproven, poses a significant health and safety risk, and/or is scientifically implausible. If the patient decides to receive such services, they must sign a <i>Member Billing Acknowledgment Form</i> (for Medicare use <i>Advance Beneficiary Notice of Non-Coverage form</i>) indicating they understand they are assuming financial responsibility for any service-related fees. Further, the patient must sign an attestation indicating that they understand what is known and unknown about, and the possible risks associated with such techniques prior to receiving these services. All procedures, including those considered here, must be documented in the medical record. Finally, prior to using experimental/investigational or unproven procedures, those that pose a significant health and safety risk, and/or those considered scientifically implausible, it is incumbent on the practitioner to confirm that their professional liability insurance covers the use of these techniques or procedures in the event of an adverse outcome.	
0	ease Control and Prevention (CDC), cigarette smoking e disease and death in the United States. Therefore tobacco cessation is worthwhile.

White et al. (2014) completed an updated Cochrane Review on acupuncture and related
interventions (acupressure, laser therapy and electrostimulation) for smoking cessation.
Randomized trials comparing a form of acupuncture, acupressure, laser therapy or
electrostimulation compared to either no intervention, sham treatment or other intervention

CPG 130 Revision 14 – S Acupuncture for Smoking Cessation **Revised – October 19, 2023** To CQT for review 09/11/2023 CQT reviewed 09/11/2023 To QIC for review and approval 10/03/2023 QIC reviewed and approved 10/03/2023 To QOC for review and approvel 10/19/2023 QIC reviewed and approved 10/19/2023 Page 1 of 5

for smoking cessation were evaluated. Authors assessed abstinence from smoking at the 1 earliest time-point (before six weeks) and at the last measurement point between six months 2 and one year. They used the most rigorous definition of abstinence for each trial, and 3 biochemically validated rates if available. Those lost to follow-up were counted as 4 continuing smokers. Where appropriate, meta-analysis, allowing pooled risk ratios, was 5 used. Thirty-eight studies were included. Based on three studies, acupuncture was not 6 shown to be more effective than a waiting list control for long-term abstinence compared 7 with sham acupuncture. Bias and heterogeneity were noted in the studies as well. 8 Acupuncture was less effective than nicotine replacement therapy (NRT). There was no 9 evidence that acupuncture is superior to psychological interventions in the short- or long-10 11 term. There is limited evidence that acupressure is superior to sham acupressure for shortterm outcomes and no trials reported long-term effects. The pooled data for studies testing 12 an intervention that included continuous auricular stimulation suggested a short-term 13 benefit compared to sham stimulation; subgroup analysis showed an effect for continuous 14 acupressure but not acupuncture with indwelling needles. The evidence from two trials 15 using laser stimulation was inconsistent and could not be combined. The combined 16 evidence on electrostimulation suggests it is not superior to sham electrostimulation. 17 Authors concluded that although pooled estimates suggest possible short-term effects there 18 is no consistent, bias-free evidence that acupuncture, acupressure, or laser therapy have a 19 20 sustained benefit on smoking cessation for six months or more. However, lack of evidence and methodological problems mean that no firm conclusions can be drawn. 21 Electrostimulation is not effective for smoking cessation. Well-designed research into 22 acupuncture, acupressure and laser stimulation is justified since these are popular 23 interventions and safe when correctly applied, though these interventions alone are likely 24 to be less effective than evidence-based interventions. 25

26

27 These updated results are consistent with previous Cochrane Reviews described briefly here. White et al. (2011) included 33 reports of studies. Acupuncture was less effective 28 than nicotine replacement therapy (NRT). There was no evidence that acupuncture is 29 superior to waiting list, nor to psychological interventions in short- or long-term. The 30 evidence on acupressure and laser stimulation was insufficient and could not be combined. 31 The evidence suggested that electrostimulation is not superior to sham electrostimulation. 32 33 Authors concluded that there is not consistent, bias-free evidence for acupuncture or acupuncture-related interventions are effective for smoking cessation. Lack of evidence 34 and methodological problems preclude drawing any firm conclusions and well-designed 35 studies are needed. White et al. (2006) included 24 studies in this Cochrane Review. A 36 sufficient number of studies were found only for the comparison of acupuncture and sham 37 acupuncture for meaningful combination, however given the heterogeneity, bias, and 38 39 influential outlier data, conclusions could not be drawn. And with exclusion of outlier data, no effect of acupuncture was noted. Authors' conclusions were identical to the 2011 40 review. For the 2002 and the original 2000 Cochrane Reviews by White et al. authors 41

CPG 130 Revision 14 – S Acupuncture for Smoking Cessation **Revised – October 19, 2023** To CQT for review 09/11/2023 CQT reviewed 09/11/2023 To QIC for review and approval 10/03/2023 To QOC for review and approval 10/19/2023 QIC reviewed and approved 10/19/2023 Page 2 of 5

concluded that there was no clear evidence that acupuncture, acupressure, laser therapy or
 electrostimulation were effective for smoking cessation.

3

Sibbritt et al. (2018) aimed to identify and summarize the evidence of acupuncture 4 interventions for those people with lifestyle risk factors for stroke, including alcohol-5 dependence, smoking-dependence, hypertension, and obesity. A total of 59 RCTs (5,650 6 participants) examining the use of acupuncture in treating lifestyle risk factors for stroke 7 met the inclusion criteria. Relative to sham acupuncture, individuals receiving auricular 8 acupressure for smoking-dependence reported lower numbers of consumed cigarettes per 9 day. Overall, only a few trials were considered of low risk of bias for smoking-dependence, 10 and as such none of the significant effects in favor of acupuncture interventions were robust 11 against potential selection, performance, and detection bias. The authors concluded that the 12 review found no convincing evidence for effects of acupuncture interventions for 13 improving lifestyle risk factors for stroke. 14

15

Wang et al. (2019) evaluated the effectiveness and safety of transdermal acupuncture by needles for smoking cessation. Twenty-four trials involving 3984 participants were included. The methodological quality was generally low. Authors concluded that based on the available literature, acupuncture combined with counseling, educational smoking cessation program or moxibustion was more effective than acupuncture as monotherapy with regard to long-term smoking cessation. Further, high quality trials are needed to confirm the result.

23

Dai and Cao (2021) performed a meta-analysis of 2706 patients in 23 studies. Study 24 participants received acupuncture treatments including acupuncture, sham acupuncture, 25 auricular acupressure, sham auricular acupressure, acupuncture plus auricular acupressure, 26 and nicotine replacement therapy. There was no significant difference in short-term 27 abstinence rates or the Fagerstrom test for nicotine dependence scores or daily smoking 28 between any of the groups. For long-term abstinence rates, there was a significant 29 difference between sham auricular acupuncture and true auricular acupuncture. The 30 acupuncture plus auricular group showed better overall abstinence rates. Seventeen out of 31 twenty- four studies mentioned adverse events; Two studies reported there were no adverse 32 33 events. One study noted minor bleeding, hematoma, dizziness, fainting, residual needle sensation, and minor infection. Three studies of auricular and sham auricular therapy listed 34 local ear "maladaptation" and pain. Biases and other issues in evaluating the studies 35 included incorrect or absent blinding methods, small numbers of studies for some 36 37 therapeutic interventions, variable treatment course lengths and times to follow-up, possible subtle differences between chosen points and manipulation methods. 38

39

40 Allen, et al. (2023) concluded that acupuncture for tobacco cessation showed a moderate 41 certainty of benefit. The authors noted from review of White (2014) that, "Acupuncture

CPG 130 Revision 14 – S Acupuncture for Smoking Cessation **Revised – October 19, 2023** To CQT for review 09/11/2023 CQT reviewed 09/11/2023 To QIC for review and approval 10/03/2023 QIC reviewed and approval 10/03/2023 To QOC for review and approval 10/19/2023 QIC reviewed and approved 10/19/2023 Page 3 of 5

compared to sham acupuncture for smoking cessation [had] evidence of [a] short term
 effect."

3

4 PRACTITIONER SCOPE AND TRAINING

5 Practitioners should practice only in the areas in which they are competent based on their 6 education, training and experience. Levels of education, experience, and proficiency may 7 vary among individual practitioners. It is ethically and legally incumbent on a practitioner 8 to determine where they have the knowledge and skills necessary to perform such services 9 and whether the services are within their scope of practice.

- It is best practice for the practitioner to appropriately render services to a patient only if they are trained, equally skilled, and adequately competent to deliver a service compared
- to others trained to perform the same procedure. If the service would be most competently delivered by another health care practitioner who has more skill and training, it would be
- 15 best practice to refer the patient to the more expert practitioner.
- 16

11

12

Best practice can be defined as a clinical, scientific, or professional technique, method, or process that is typically evidence-based and consensus driven and is recognized by a majority of professionals in a particular field as more effective at delivering a particular outcome than any other practice (Joint Commission International Accreditation Standards for Hospitals, 2020).

22

Depending on the practitioner's scope of practice, training, and experience, a member's condition and/or symptoms during examination or the course of treatment may indicate the need for referral to another practitioner or even emergency care. In such cases it is prudent for the practitioner to refer the member for appropriate co-management (e.g., to their primary care physician) or if immediate emergency care is warranted, to contact 911 as appropriate. See the *Managing Medical Emergencies (CPG 159 – S)* clinical practice guideline for information.

30

31 *References*

Allen J, Mak SS, Begashaw M, Larkin J, Miake-Lye I, Beroes-Severin J, Olson J, Shekelle 32 33 PG. Use of Acupuncture for Adult Health Conditions, 2013 to 2021: A Systematic Doi: Review. JAMA Netw Open. 2022 Nov 1;5(11):e2243665. 34 10.1001/jamanetworkopen.2022.43665. Erratum in: JAMA Netw Open. 2023 Feb 35 1;6(2):e233459. PMID: 36416820; PMCID: PMC9685495 36

37

Dai R, Cao Y, Zhang H, et al. Comparison between Acupuncture and Nicotine
Replacement Therapies for Smoking Cessation Based on Randomized Controlled
Trials: A Systematic Review and Bayesian Network Meta-Analysis. Evid Based
Complement Alternat Med. 2021;2021:9997516. Published 2021 Jun 16.
doi:10.1155/2021/9997516

1	Sibbritt D, Peng W, Lauche R, Ferguson C, Frawley J, Adams J. Efficacy of acupuncture
2	for lifestyle risk factors for stroke: A systematic review. PLoS One.
3	2018;13(10):e0206288. Published 2018 Oct 26. doi:10.1371/journal.pone.0206288
4	
5	Wang JH, van Haselen R, Wang M, et al. Acupuncture for smoking cessation: A systematic
6	review and meta-analysis of 24 randomized controlled trials. Tob Induc Dis.
7	2019;17:48. Published 2019 Jun 4. doi:10.18332/tid/109195
8	
9	White AR, Rampes H, Ernst E. Acupuncture for smoking cessation. Cochrane Database
10	Syst Rev. 2000;(2):CD000009. doi:10.1002/14651858.CD000009
11	
12	White AR, Rampes H, Ernst E. Acupuncture for smoking cessation. Cochrane Database
13	Syst Rev. 2002;(2):CD000009. doi:10.1002/14651858.CD000009
14	
15	White AR, Rampes H, Campbell JL. Acupuncture and related interventions for smoking
16	cessation. Cochrane Database Syst Rev. 2006;(1):CD000009. Published 2006 Jan 25.
17	doi:10.1002/14651858.CD000009.pub2
18	
19	White AR, Rampes H, Liu JP, Stead LF, Campbell J. Acupuncture and related
20	interventions for smoking cessation. Cochrane Database Syst Rev.
21	2011;(1):CD000009. Published 2011 Jan 19. doi:10.1002/14651858.CD000009.pub3
22	
23	White AR, Rampes H, Liu JP, Stead LF, Campbell J. Acupuncture and related
24	interventions for smoking cessation. Cochrane Database Syst Rev.
25	2014;2014(1):CD000009. Published 2014 Jan 23.
26	doi:10.1002/14651858.CD000009.pub4
27	-
28	World Health Organization (WHO). Tobacco. Retrieved August 24, 2023 from
29	https://www.who.int/health-topics/tobacco#tab=tab_1