Providing an Alternative Treatment Modality for Veterans: Establishing and Evaluating an Acupuncture Clinic in a VA Medical Center

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The work of the authors involved in the Atlanta VAMC Acupuncture Clinic proves how effective acupuncture can be for veterans with chronic pain who fail conventional therapies.

“I have had pain (nearly) all my life—for 42 years, and nothing has helped! I doubt acupuncture will help me.”

This 66-year-old veteran presented to the acupuncture clinic in January 2009. He had sustained back and right knee injuries while in Vietnam and had been hospitalized for a month before being discharged. Two years after leaving the service, the pain worsened, affecting his entire right side, including neck, shoulder, back, and knee. The veteran had posttraumatic stress disorder (PTSD) with frequent flashbacks, nightmares, and hypervigilance, as well as severe depression. Imaging studies 20 years before had shown multiple levels of degenerative joint disease and spine spondylosis. He received various treatments over the years, including multiple courses of physical and occupational therapy; conservative topical treatments such as heat, cold, and creams; chiropractic treatments as often as twice weekly for several years; monthly massage therapies; and medications—ranging from over-the-counter drugs to prescribed opioids and 14 epidural steroid injections in the cervical and lumbar regions. Some of the narcotic medications had once led to an addiction problem. According to the veteran, none of these therapies were effective enough to make his “pain better and life easier.”

In 2009, his primary care physician referred him to a trial of acupuncture. He was accompanied by his wife during his initial visit. He reported his pain level at 7 out of 10. He considered that a “good day” rating. He had mild thoracic scoliosis with abnormal pelvic rotation and abnormal gait. There were no acute neurologic signs.

“After 2 acupuncture treatments, he reported, “It was a miracle! I feel so much better that I am not going to complain.” He rated his pain at 3 out of 10. He had been receiving maintenance treatments every 1 to 3 months, with a total 12 treatments by March 2011. He had continued to report “minimal pain” without the need for narcotic medications. Psychologically, he was also more stable and relaxed. He stated, “This [acupuncture] is one of the 2 best things [that] ever happened to me at the VA.”

TREATMENT MODALITY

Acupuncture is a clinical treatment modality developed in the Eastern medical system, Traditional Chinese Medicine. Medical application of acupuncture has been traced back 4,000 years. Its theory and application were compiled and described systematically in one of the world’s earliest medical textbooks, the Huangdi Neijing (also known as The Inner Canon of Huangdi, Yellow Emperor’s Inner Canon, or Yellow Emperor’s Classics of Internal Medicine), roughly 400 BC.
According to beliefs expressed in the Neijing, there are 12 major meridians and multiple connecting meridians in the human body. These meridians, or channels, guide the flow of bioenergy for maintaining health.

The basic acupuncture treatment technique is to insert thin metal needles (historically made of gold, currently made of stainless steel) into selected acupoints along meridians. Adjunct treatment techniques commonly applied in addition to, or in lieu of, body needles include electroacupuncture, auricular acupuncture, skull (scalp) acupuncture, moxibustion, bloodletting, plum-blossom needle tapping, penetrating needling, cupping therapy, Gua Sha, and acupressure massage.2

Auricular and skull acupuncture represent acupuncture performed within some clinically established microsystems based on reflexology instead of on meridians. Other microsystems are also indicated in Korean hand acupuncture, mouth acupuncture, foot reflexology acupressure massage, and others.2

Although originating in China, acupuncture has been widely practiced and has evolved worldwide, particularly in Asia and Europe. In the 1970s, James Reston introduced acupuncture in the U.S.3 Reston, a 2-time Pulitzer prize winner, was a journalist who accompanied President Nixon to China. During the 1971 trip, he experienced acute appendicitis, and his severe postappendectomy pain was successfully controlled by Dr. Chang-yuan Li using acupuncture and moxibustion. Reston’s report of this experience in The New York Times July 26, 1971, article, “Now, About My Operation in Peking,” exposed most Americans to the traditional Chinese medical practice and acupuncture for the first time. By 2007, more than 3 million adult Americans reported having used acupuncture.4 Almost half the individuals who sought acupuncture care reported nonresponse to conventional Western medical treatment.5

The World Health Organization published a review of controlled clinical trials on acupuncture in 2002, which listed the procedure as an effective treatment modality with minimal adverse effects (AEs) for a wide range of diseases and conditions.

Incorporating acupuncture with traditional Western medicine therapies, there is evidence that it can be effective in treating a variety of conditions, including pain-related disorders.6

One of the main applications of acupuncture that is supported by a strong research evidence base is for the treatment of pain, including low back pain, knee osteoarthritis, neck pain, and headaches.3 Of the people surveyed, 74% who used acupuncture listed pain as the reason for seeking this treatment.7 Within the context of Western medicine, physicians and therapists discovered that pressing, stimulating, or injecting certain superficial body points not necessarily at the site of pain, called trigger points, can help with the relief of myofascial pain and its radiation. Three thousand years ago, Chinese physicians reported using trigger points for treatment of pain. “Ling Shu,” a chapter on acupuncture in the Yellow Emperor’s Inner Canon, summarized this approach, “in pain, puncture the tender point.”1

Chronic pain related to musculoskeletal disorders is of significant concern in the U.S. Armed Forces and is the leading cause of hospitalization and disability in this population. The DoD pays more than $1.5 billion per year in disability benefits to disabled service members, and musculoskeletal conditions account for 40% to 50% of this amount.8 Associated with military deployments in support of Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF), the rates of disability cases within the U.S. military have been increasing at an alarming rate, despite continuous advances in military medicine.8 This trend is also observed in the VHA system. Along with the evidence of its clinical effectiveness, the reduced cost of acupuncture makes it a good choice to include in veterans’ care. For instance, community-based charges would average $80 per session for acupuncture, compared with more than $1,500 for each epidural injection.

Incorporating acupuncture with...
conventional therapies for veterans is becoming an interest of many practitioners in the federal service. This article provides clinical guidelines and an example of how to establish an acupuncture clinic at a major VAMC. Data are also presented on the clinical effects after evaluating 136 patients who were first treated between January 2008 and February 2009 and were followed through February 2011. These results represent a case series of patients and are not intended to substitute for evidence from a controlled clinical trial.

**CLINIC ESTABLISHMENT**

The acupuncture clinic at the Atlanta VAMC in Georgia was established in January 2008 as a clinical demonstration project under the Birmingham/Atlanta Geriatric Research Education and Clinical Center (GRECC) to assist with management of older veterans with severe osteoarthritic conditions and to evaluate the acceptance of alternative medicine modalities. Likely due to initial positive reaction from patients and a need for additional treatment modalities, the clinic began to receive a broader range of consultation requests from the Primary Care Clinic and the Physical Medicine and Rehabilitation (PM&R) Pain Clinic. To respond to the larger demand for alternative treatments, the pilot program was expanded to serve as a stand-alone PM&R clinic, focusing mainly on providing acupuncture for chronic PM&R clinic patients who had failed other treatment modalities or experienced severe AEs to medications, had a documented history of substance abuse, or who were at high risk of polypharmacy. Patients who were receiving moderate-
to-high dosages of opioids and did not wish to taper these medications were excluded from the acupuncture clinic.

Prior to establishing the clinic, the infection control protocol was reviewed with the hospital officials to assure that the staff followed standard precautions, local sterilization, and disposal of sharp instruments (needles). An acupuncture-friendly examination table (with adjustable height, head tilt, knee support, and face cradle) was purchased for the patients’ comfort and procedure convenience. Clinical support staff were trained to understand the basic concepts of acupuncture, the referral process, and the main AEs. As in any other clinical setting, a crash cart was available in a nearby clinic station.

Patients in the acupuncture clinic followed the same check-in and triage process as patients in other clinics. A routine visit comprised a patient history, physical examination, and a 30- to 40-minute acupuncture session. The clinic was operated by a board-certified physiatrist who also holds an acupuncture practice license in Georgia and by the support staff from the Pain Clinic and the Geriatric Clinic.

### PATIENT EDUCATION AND CONSENT

Patients admitted to the acupuncture clinic were required to verbally consent to the procedures. At the initial visit, detailed education was provided by the physician, followed by a question-and-answer period. The patient education module covers the basic theory and indications of acupuncture, the general process of the procedure, the duration of each visit, follow-up instructions, and any possible AEs of acupuncture.

Acupuncture carries minimal AEs. These may include minor
Table 2. Outcome of 136 patients admitted to an acupuncture clinic from January 2008 to February 2009

<table>
<thead>
<tr>
<th>Outcome</th>
<th>N (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cured</td>
<td>17 (12.5)</td>
</tr>
<tr>
<td>Continue treatments</td>
<td>12 (8.8)</td>
</tr>
<tr>
<td>Acupuncture not recommended</td>
<td>13 (9.6)</td>
</tr>
<tr>
<td>Discharging to other therapies</td>
<td>20 (14.7)</td>
</tr>
<tr>
<td>Other therapies recommended for possible longer treatment effects than 2 to 3 weeks</td>
<td>8</td>
</tr>
<tr>
<td>Received 12 or more acupuncture treatments with good response, but also responding to other treatment modalities</td>
<td>12</td>
</tr>
<tr>
<td>Not responsive</td>
<td>36 (26.5)</td>
</tr>
<tr>
<td>Discontinue due to intolerance to needles</td>
<td>4 (2.9)</td>
</tr>
<tr>
<td>Loss to follow-up</td>
<td>15 (11.0)</td>
</tr>
<tr>
<td>Worsened condition requiring surgery</td>
<td>3 (2.2)</td>
</tr>
<tr>
<td>Other reasons</td>
<td>16 (11.8)</td>
</tr>
</tbody>
</table>

*a Patients presented with no more problems after treatments, no records of visits to other clinics for the same pains, and followed up only as needed in the acupuncture clinic with longer than a 6-month interval.

*b Patients got relief only from acupuncture with either no response or with severe adverse effects from other conventional treatments.

*c These parameters were designed to relieve the patient waiting list as a result of the limited resources at the VA acupuncture clinic.

*d Defined as reporting no change in their conditions after 3 sessions or with < 10 days of relief after 5 sessions. This is a much stricter criterion than regular acupuncture clinics in community settings.

*e Other reasons include moving from Georgia to another state, returning to active-duty tour, worsening medical or psychological conditions, or lack of transportation.

bleeding at the time the needle is withdrawn, which is controllable by local pressure, and a persistent needle sensation lasting several hours to a few days after the needle is removed. On average, 10% of patients develop stronger reactions to needling or vasovagal responses. This reaction is called needle shock and can manifest as nausea, dizziness, sweating, or even loss of consciousness. Such reactions can be immediately controlled by withdrawal of all needles. There are no lingering AEs or life-threatening concerns that remain afterward. Most patients “wake up” with reports of complete resolution of pain symptoms. Others may develop exacerbated pain from 24 to 48 hours after the procedure, which usually abates to minimal pain. There has been no explanation for these phenomena by Western medicine findings except for possible regulation of autonomic activities by acupuncture.9,18

Most patients experience relaxation after the treatment with a few reporting drowsiness. It is prudent to advise patients to nap and rest before resuming driving. Although some people might have immediate relief and feel very well following the treatment, strenuous activities should be avoided for 24 hours. Patients are encouraged to continue their regular activities, eat a healthy diet, and drink plenty of water. They are also instructed to avoid drinking alcohol or engaging in sexual activities for 24 hours.

PRACTITIONER CREDENTIALING

Although acupuncture is a minimally invasive procedure and generally regarded as one of the safest modalities among comparable treatments, serious cases of organ injuries, infections, and spinal cord injuries have been reported.19,20 Pneumothorax is the most commonly reported organ injury and occurred when the practitioner inserted an acupuncture needle too deeply into the thoracic region or used embedded body needles that were not retrieved. Spinal cord injuries occurred mainly due to embedded body needles, which were used in a Japanese style of acupuncture. Infections could occur more frequently in high-risk patients, such as patients with diabetes and elderly patients. Therefore, proper credentialing processes for practitioners are required.

There are 2 groups of practitioners who can work in acupuncture clinics. One group includes physicians who practice in various medical fields; the other group includes licensed acupuncturists who receive 3 years of specialized training through accredited acupuncture schools. Each state may have different credentialing processes in place. Physicians practicing acupuncture as a complementary and alternative procedure have the advantage of possessing wider medical knowledge. Certified acupuncturists may, however, over time develop more experience with devoted acupuncture service. Depending on patients’ needs, the complexity of the conditions to be treated,
and patients’ medical and surgical histories, the pros and cons of choosing a physician vs a certified acupuncturist varies from case to case.

Focused Professional Practice Evaluation is a requirement during initial physician credentialing and privileging at all VAMCs and can be applied to the initial acupuncture privilege application. This added layer of scrutiny provides additional protection for veterans when selecting acupuncture providers.

SAMPLE POPULATION

From January 2008 to February 2009, the PM&R acupuncture clinic saw patients for 2 half-day sessions per week. During this period, 136 new patients were admitted to the clinic. The mean age of the patients was 51 years (median 48 years, range 23-93). Out of the patients treated, 71.3% were men (n = 97), which represents a lower than expected percentage than the usual percentage of men seen (90%); 42.7% were white; 54.4% were African Americans; and 2.2% were Asian (one individual’s race was not recorded).21 The sample population represented a larger percentage of acupuncture use among African Americans in the VA setting, compared with results of a prior conducted survey in a civilian medical setting and may support the idea that the lower acceptance of alternative medical therapies by African Americans might be related to financial affordability rather than to education status or cultural differences.7,22-24 Of the 136 patients, 88.2% reported no previous acupuncture experience.

CONDITIONS TREATED

The primary referred diagnosis was chronic pain (86.6%) followed by headaches (12.7%). One patient was referred for severe gastrointestinal problems. At their initial presentation, 70.1% of the patients had 2 or more problems and 56.7% of the patients had multiple areas of body pain or headaches. While the patients remained in the acupuncture clinic, 87.0% were treated for more than 2 conditions, including different body pain, headaches, medical complaints, such as allergy, respiratory symptoms, gastrointestinal dysfunction, and poor sleep, and psychological complaints, such as anxiety, posttraumatic stress disorder (PTSD), and depression.

TREATMENTS

Acupuncture techniques used in the clinic included body needle acupuncture, electrical acupuncture, auricular therapy, skull acupuncture, moxibustion with smokeless moxa, infrared heating lamp or self-adhesive plasters (to avoid smoke in the clinic area), bloodletting (with only a few drops of blood excreted), and cupping. Other techniques were not used either due to considerations of clinic setting, patients’ tolerance, or limited evidence in practice. The regular body, auricular, or skull acupuncture needles used in the clinic are disposable, single-use metal needles of 32 gauge to 40 gauge, 13 mm to 75 mm in length. The auricular semipermanent (ASP) needles used in the clinic are gold-plated and taped on with hypoallergenic adhesive plasters for added protection. Maximal 5 ASP needles are used for each ear, and they can be left in for up to 10 days. Bloodletting at ear tip, Fengmen (BL-12), or ting points are only performed for acute conditions, such as acute severe pain in which the patient cannot move, a pain area that cannot be touched, or new cold symptoms that developed within 24 hours.

In addition to acupuncture treatments, 86.5% of acupuncture clinic visits integrated other treatment recommendations, including patient education about exercise,
A cupuncture clinic covered diet, weight control, sleep hygiene, mood regulation, and the use of other conservative treatments, such as topical agents or modalities. Pertinent laboratory or imaging testing was ordered as needed. During their clinic visits, 21.6% of the patients had additional interventional procedures (14.4% with only 1 procedure), such as trigger-point injections, corticosteroid injections intra-articulary or intrabursal, or scar infiltration.

**FOLLOW-UP AND DISCHARGE**

The patients in the PM&R acupuncture clinic were scheduled for a second treatment 3 to 4 weeks after the first visit. The no-show rate for this visit was 7.3%. The follow-up intervals averaged between 1 and 3 months, mainly due to clinic availability. Between January 2008 and February 2011, the no-show rate was 6.7% compared with the 14.0% no-show rate at other PM&R pain clinics during the same period, indicating better compliance for acupuncture among the veteran population.

Average follow-up duration for the 136 patients was 42.4 weeks (standard deviation [SD] ± 41.7) and an average 6.2 (SD ± 5.0) acupuncture treatments per patient (range 0-26). At the end of February 2011, all but 12 patients were discharged. The 12 patients were recommended to continue their acupuncture treatments, because they experienced severe AEs or no response from other conservative treatments.

Of the 136 patients, 124 completed therapy and were discharged from the clinic (Table 2). Among those discharged, 12.5% were cured, defined as no more pain after treatments, no records of visits to other clinics for the same pains, and follow-up in the acupuncture clinic only as needed with longer than 6-month intervals. This was considered a success, because these patients had failed prior conservative treatments. In addition, the patients received minimal acupuncture interventions with the majority receiving follow-up treatments every 2 months, as compared with once a week or even more frequent treatments in the community setting. The nonresponse rate was 26.5%, including those who presented with < 10 days of relief. Due to limited resources, patients were also discharged who would normally receive continued acupuncture treatments, such as those with good responses to acupuncture but also (may have) responded to other conservative treatments.

**CLINICAL EFFECTS ASSESSMENT**

To monitor the quality of acupuncture treatments and patients’ progress, a simple 10-item self-report Intake Questionnaire was completed by each patient at every visit during check-in (see Intake Questionnaire on page 22). This questionnaire was designed to evaluate pain, emotions, sleep, and quality of life (QOL) at each clinic visit. Patients were also asked to rate the effectiveness of the acupuncture treatments, using
A visual analog scale (VAS). For those patient-reported measures, ratio-level scaling was made available with a VAS. The VAS has been widely adopted to measure constructs such as pain and functional assessments. The key benefits of a VAS are the increased sensitivity to measured change as well as the decreased reliance on verbal skills for the understanding of response category alternatives. Using a VAS rather than a scoring system also decreases the chance of patients quoting certain customary numbers. All questions evaluated by the VAS are scored from 0 to 10 based on the position of the response mark on the 10-cm line.

**Acupuncture Treatment Effect on Pain**

At their initial presentation (Table 3), most patients were taking prescription pain medications. All patients had prior conventional treatments with different reported degrees of dissatisfaction. Their mean presenting pain score was 6.3 on the 0 to 10 VAS (n = 119). Immediately after the first acupuncture treatment, patients’ self-reported pain score improvement averaged 3.6 (SD ± 2.2) out of 10 (P < .001).

After the initial acupuncture treatment, most patients reported pain relief lasting < 1 week. Following all treatment sessions, more patients reported longer lasting pain relief (Figure 1), suggesting some cumulative effects from acupuncture treatments even with the infrequent treatments they received.

**Acupuncture Treatment Effect on Sleep**

Of the 136 patients, 75.6% presented with sleep difficulties. Their sleep duration at initial presentation averaged 5.4 (SD ± 1.7) hours, and their reported sleep quality averaged 3.3 (SD ± 2.2) out of 10.0 (n = 94). Comparing the patients’ final self-report on the Intake Questionnaire with their initial self-report, sleep duration improved by 0.3 hours (P = .08), and sleep quality improved by 0.86 out of 10.0 (P = .001).

**Acupuncture Treatment Effect on Quality of Life**

Comparing patients’ final self-report on the Intake Questionnaire regarding aspects of QOL with their initial self-report, mobility difficulty, and general health rating improvements were significant (n = 91), with mobility difficulty improved by 0.84 point (P = .013), and general health rating improved by 0.71 point (P = .008). The score for activities of daily living improved by 0.5 point but was not statistically significant (P = .14).

**Other Effects of Acupuncture Treatment**

Following the acupuncture clinic visits, 28.8% of the patients reported additional positive effects, such as improved vitality, improved mental status, and decreased anxiety. However, the self-reported scores for depression, anxiety, or vitality remained almost the same compared with their first vs final Intake Questionnaire (n = 95).

**Adverse Effects**

No major AEs were reported: 17.6% of patients had minor reactions to acupuncture (ie, minor bleeding at needle removal, persistent needle sensation, or feeling drowsiness after treatment); 5.6% had worsening pain after treatment for up to 3 days followed by significant pain decrease; and 4.8% had needle shock with transient vasovagal reaction but recovered after needle removal.

**Overall Reported Acupuncture Effects**

At initial presentation to the acupuncture clinic, 85% of patients reported poor responses to other treatments, either conservative or invasive. At the end of treatment, the patient self-reported overall acupuncture effectiveness averaged 6.0 (SD ± 2.6) out of 10.0 (n = 98). In a 2002 National Health Interview Survey, when asked whether acupuncture helped with the primary condition being treated, the patients’ responses were 46.3% “A great deal”, 25.8% “Some”; 14.6% “Only a little”; and 13.4% “Not at all.”

Results from the clinic suggest a similar moderate effectiveness...
Acupuncture Clinic Intake Sheet

<table>
<thead>
<tr>
<th>Question</th>
<th>Response</th>
<th>Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. How bad is your pain today?</td>
<td></td>
<td>No pain</td>
</tr>
<tr>
<td></td>
<td>Where is your pain?</td>
<td></td>
</tr>
<tr>
<td>2. How bad is your headache today?</td>
<td></td>
<td>No headache</td>
</tr>
<tr>
<td></td>
<td>How many times in the past week did you have headaches?</td>
<td></td>
</tr>
<tr>
<td>3. How depressed do you feel today?</td>
<td></td>
<td>No depression</td>
</tr>
<tr>
<td>4. How anxious are you today?</td>
<td></td>
<td>Not at all</td>
</tr>
<tr>
<td>5. How is your energy level today?</td>
<td></td>
<td>No energy at all</td>
</tr>
<tr>
<td>6. How many HOURS of sleep a night, on average, do you think you are getting in the past month if this is your first visit or since last visit if you are here for follow-up?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. What quality of sleep have you been getting in the past month if this is your first visit or since last visit if you are here for follow-up?</td>
<td></td>
<td>Poorest sleep</td>
</tr>
<tr>
<td>8. How effective has acupuncture been to treat your condition(s)?</td>
<td></td>
<td>Not helping at all</td>
</tr>
<tr>
<td>9. How difficult is it for you to move about for the last month if this is your first visit or since last visit if you are here for follow-up?</td>
<td></td>
<td>No difficulty at all</td>
</tr>
<tr>
<td>10. How difficult is it for you to perform daily activities for the last month if this is your first visit or since last visit if you are here for follow-up?</td>
<td></td>
<td>No difficulty at all</td>
</tr>
<tr>
<td>11. How would you rate your health compared with others of your age?</td>
<td></td>
<td>Poorest</td>
</tr>
<tr>
<td>12. Have there been any new added medications since last visit if you are here for follow-up?</td>
<td>If yes, please list them.</td>
<td></td>
</tr>
</tbody>
</table>
rating of acupuncture treatment among the veteran population as well (Figure 2).

We examined the factors that could potentially influence the reported effects of acupuncture, including demographic characteristics, prior substance abuse history, childhood abuse history, disability application status, depression, PTSD, service connection, current opioid use (low-to-moderate dosages), fibromyalgia, and irritable bowel syndrome. Only 2 factors were found to be significant in affecting the patients’ rating of acupuncture effectiveness: disability application status and depression.

Sixty-two patients had records regarding their disability application status; 41 were not actively applying while 21 were. Between these 2 groups, the final rating of acupuncture effectiveness (n = 54) varied significantly (P = .0059). Patients who were applying for disability reported less effectiveness of acupuncture, with a 2.2-point difference on a 10-point scale.

In reviewing the patients’ final rating of acupuncture effectiveness as to who did (n = 58) and who did not (n = 39) carry a depression diagnosis, the patients with depression reported less effectiveness of acupuncture (P = .03), with a 1.1-point difference on a 10-point scale.

LIMITATIONS

The report is intended to illustrate the use of acupuncture in a veteran population, especially for those who failed both conservative and invasive treatments. The clinical observational data showed a moderate response rate among this group. Because the clinic is operated under the integrative medicine concept rather than using acupuncture alone, the success rate could reflect the multimodal approach. The clinical questionnaire is designed to quickly capture patients’ problems and responses to acupuncture. It is not a standardized questionnaire. Data loss in the responses could potentially represent some bias due to patients’ willingness or unwillingness to report. Robust clinical research studies using standardized outcome measures and controlled groups are needed to examine the true effectiveness of acupuncture in managing each single condition.

SUMMARY

Many practitioners in federal service want to know more about acupuncture, and some of them wish to establish an acupuncture clinic in their region. The intent of this study was to provide interested providers with the information gathered from the clinical demonstration project at the Atlanta VAMC. To protect veterans’ safety, proper setup of the acupuncture clinic and accreditation of providers were required. The practice demonstrated that acupuncture was well accepted by the veteran population and had clinically exhibited effectiveness in pain, sleep, and QOL in patients with chronic pain who failed conventional therapies. Although this does not mitigate the necessity of future research, acupuncture may be a valuable treatment modality used with conventional therapies to provide better care for veterans.

Authors disclosure

The authors report no actual or potential conflicts of interest with regard to this article.

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