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Acupressure Therapy for Pregnancy-Related Nausea and Vomiting: A Comprehensive Mini Review

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Abstract

Nausea and vomiting during pregnancy, commonly referred to as morning sickness, affects approximately 80% of pregnant women, typically manifesting between the 4th and 16th weeks of gestation. While conventional pharmacological treatments exist, concerns regarding their safety profiles and potential adverse effects have prompted increased interest in non-pharmacological alternatives. Acupressure therapy, a traditional complementary medicine technique involving the application of targeted pressure to specific anatomical points, has emerged as a promising intervention for managing pregnancy-related nausea and vomiting.

This mini review synthesizes current evidence regarding the effectiveness of acupressure, particularly focusing on stimulation of the P6 (Pericardium 6 or Neiguan) acupoint located on the wrist, in alleviating symptoms of morning sickness among pregnant women. A comprehensive analysis of recent studies reveals consistent evidence supporting acupressure's efficacy in reducing both the frequency and severity of nausea and vomiting episodes during early pregnancy.

The reviewed literature demonstrates that acupressure intervention results in statistically significant improvements in morning sickness scores, with reductions ranging from 50-70% in symptom severity across multiple studies. The technique shows particular promise due to its non-invasive nature, absence of significant side effects, ease of application, and cost-effectiveness. Various delivery methods, including manual pressure application and acupressure wristbands, have shown therapeutic benefits.

The evidence strongly supports acupressure as a safe, accessible, and effective non-pharmacological intervention for managing pregnancy-related nausea and vomiting. Given its favorable safety profile and practical applicability in both clinical and community settings, acupressure represents a valuable therapeutic option for healthcare providers managing pregnant women experiencing morning sickness,



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potentially reducing reliance on pharmacological interventions and improving maternal quality of life during early pregnancy.

Keywords: Acupressure, Pregnancy related Nausea and Vomiting, P6 Acupoint, Acupressure wristband

Introduction

Pregnancy-related nausea and vomiting, colloquially known as morning sickness, represents one of the most common and distressing symptoms experienced during early pregnancy. This condition affects approximately 80% of pregnant women globally, with symptoms typically emerging around the 4th week of gestation and persisting until the 16th week, though individual variation in duration and severity is considerable.^[1] Despite its nomenclature suggesting temporal specificity, morning sickness can occur at any time of day, significantly impacting maternal quality of life, daily functioning, and overall well-being.

The pathophysiology of pregnancy-related nausea and vomiting remains incompletely understood, though several mechanisms have been proposed including hormonal fluctuations, particularly elevated human chorionic gonadotropin (hCG) and estrogen levels, gastrointestinal motility changes, and heightened sensitivity to olfactory stimuli. In severe cases, the condition can progress to hyperemesis gravidarum, a debilitating disorder requiring medical intervention and potentially resulting in maternal dehydration, electrolyte imbalances, and weight loss.

Traditional pharmacological management approaches include antihistamines, dopamine antagonists, and serotonin receptor antagonists. However, concerns regarding potential teratogenic effects, maternal side effects, and the general preference for avoiding medications during pregnancy have catalyzed interest in alternative, non-pharmacological therapeutic modalities. Among these alternatives, acupressure therapy has garnered significant attention due to its favorable safety profile, non-invasive nature, and growing evidence base supporting its efficacy.

Acupressure, derived from traditional Chinese medicine principles, involves the application of targeted pressure to specific anatomical points believed to regulate energy flow and promote physiological balance. The technique requires no specialized equipment, can be easily taught to patients for self-administration, and carries minimal risk of adverse effects. The P6 acupoint, located on the inner forearm approximately three finger-widths proximal to the wrist crease, has been specifically identified as particularly effective for treating nausea and vomiting across various clinical contexts, including pregnancy-related symptoms.

Literature Review and Analysis

Methodological Approaches in Acupressure Research

Contemporary research investigating acupressure's effectiveness for pregnancy-related nausea and vomiting has employed diverse methodological approaches, ranging from randomized controlled trials to quasi-experimental designs. The heterogeneity in study designs reflects both the evolving nature of complementary medicine research and the practical challenges associated with conducting rigorous clinical trials in pregnant populations.

Randomized controlled trials represent the gold standard for evaluating therapeutic interventions, and several studies have successfully implemented this design to assess acupressure's efficacy. Ultraluana



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and Al Farizi conducted a comprehensive randomized controlled trial involving 90 women with singleton pregnancies under 12 weeks gestation, randomly allocating participants into three distinct groups to compare acupressure intervention against control conditions.^[1] This methodological approach allowed for robust statistical analysis and minimized potential confounding variables that might influence treatment outcomes.

Quasi-experimental designs have also been extensively utilized, particularly in community-based settings where randomization may be less feasible. Sharma conducted a quasi-experimental study involving 60 primigravida women, employing non-probability purposive sampling techniques to ensure participant recruitment met specific inclusion criteria. While quasi-experimental designs may introduce certain methodological limitations compared to randomized trials, they often provide valuable insights into real-world treatment effectiveness and practical implementation considerations. Several studies have incorporated blinding mechanisms to enhance methodological rigor. Norheim and colleagues implemented a randomized double-blind placebo-controlled design, utilizing specially designed acupressure wristbands with active pressure points compared against placebo devices with felt patches rather than pressure-applying buttons. This approach effectively controlled for placebo effects while maintaining participant and investigator blinding, strengthening the validity of observed treatment effects.

Clinical Evidence for P6 Acupoint Stimulation

The P6 acupoint, anatomically located on the pericardium meridian approximately three finger-widths proximal to the transverse crease of the wrist between the palmaris longus and flexor carpi radialis tendons, has emerged as the primary target for acupressure intervention in pregnancy-related nausea and vomiting management. Multiple studies have demonstrated consistent therapeutic benefits associated with P6 stimulation across diverse patient populations and clinical settings.

Yilmaz and colleagues conducted a randomized controlled experimental study involving 74 pregnant women between 6-14 weeks gestation, implementing acupressure wristbands designed to provide continuous P6 stimulation.^[4] Although the study reported decreased nausea and vomiting scores in the experimental group, statistical significance was not achieved, potentially due to sample size limitations or intervention duration considerations. However, the trend toward improvement suggests therapeutic potential warranting further investigation with larger sample sizes and extended treatment periods.

More robust evidence comes from studies demonstrating statistically significant improvements and highly significant differences between treatment and control groups across multiple outcome measures, including vomiting frequency, distress levels, nausea duration, and overall symptom severity, with p-values less than 0.001 for each assessed parameter.^[1] These findings provide compelling evidence for P6 acupressure's therapeutic efficacy in managing pregnancy-related symptoms.

Lepcha and Devi's non-blinded randomized clinical trial involving 80 antenatal women demonstrated progressive improvement over a seven-day treatment period, with statistically significant differences observed on days 5, 6, and 7 following intervention initiation.^[5] This temporal pattern suggests that acupressure's therapeutic effects may require several days to manifest fully, with benefits potentially accumulating over time through repeated stimulation sessions.



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Intervention Protocols and Treatment Delivery Methods

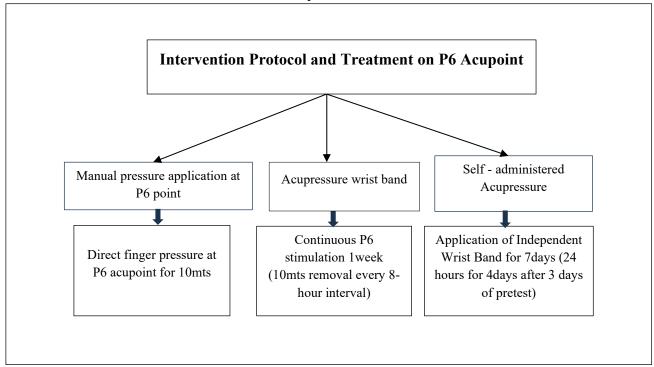


Fig.1 Shows the treatment of morning sickness in pregnancy by P6 acupressure point

Acupressure intervention protocols have varied considerably across studies, reflecting different theoretical approaches and practical considerations regarding optimal treatment delivery. Understanding these variations is crucial for developing standardized treatment recommendations and ensuring reproducible therapeutic outcomes. Manual pressure application represents the most traditional method of acupressure delivery, requiring direct finger pressure to be applied to the P6 acupoint for specified durations and frequencies. Ultraluana and Al Farizi's protocol involved four daily pressure applications, each lasting 10 minutes, without accompanying massage techniques.^[1] This intensive approach demonstrated significant therapeutic benefits, suggesting that frequent, sustained pressure application may optimize treatment outcomes. Alternative protocols have employed less intensive intervention schedules while maintaining therapeutic efficacy. Handayani's study utilized a modified approach that still achieved statistically significant improvements in morning sickness severity, with p-values of 0.001 indicating strong treatment effects. [9] These findings suggest that acupressure's therapeutic benefits may be achievable through various intervention intensities, potentially allowing for individualized treatment protocols based on patient preferences and practical constraints. Acupressure wristbands represent an innovative delivery method that provides continuous P6 stimulation without requiring active patient participation or healthcare provider intervention. These devices typically incorporate small plastic buttons or raised surfaces positioned to maintain constant pressure on the target acupoint. Norheim's study utilized commercially available wristbands (Sea Band UK Ltd.) with 1 cm plastic buttons for active treatment, compared against placebo bands with felt patches. [6] This approach offers the advantage of sustained treatment delivery while maintaining normal daily activities. Self-administered acupressure protocols have shown particular promise for community-



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based implementation and patient empowerment. Lepcha and Devi's study trained participants to apply acupressure wristbands independently, with self-assessed symptom monitoring using standardized rating scales.^[5] This approach not only demonstrated therapeutic efficacy but also highlighted acupressure's potential for patient self-management, reducing healthcare system burden while maintaining treatment effectiveness.

Outcome Measurement and Assessment Tools

Standardized outcome measurement represents a critical component of acupressure research, enabling objective assessment of treatment effects and facilitating comparison across different studies. Various validated instruments have been employed to quantify nausea and vomiting severity, each offering distinct advantages and limitations. The Pregnancy Unique Quantification of Emesis Scale (PUQE) has emerged as a widely utilized assessment tool, specifically designed to evaluate pregnancy-related nausea and vomiting symptoms. Yilmaz and colleagues employed PUQE to assess treatment outcomes, taking advantage of its pregnancy-specific validation and comprehensive symptom evaluation. [4] Shukla's research demonstrated dramatic PUQE score improvements, with experimental group scores decreasing from baseline values to 3.50±0.76 post-intervention, compared to control group scores of 7.25±1.21^[6]. These quantitative improvements provide objective evidence of acupressure's therapeutic efficacy. The Modified Rhodes Index of Nausea and Vomiting Scale represents another frequently employed assessment instrument, offering a detailed evaluation of symptom frequency, severity, and associated distress levels. Sharma utilized this tool to demonstrate significant improvements in both nausea and vomiting components, with experimental group nausea scores decreasing from 8.2 to 4.0, while vomiting scores improved from 2.1 to 0.9.[2] The comprehensive nature of this assessment tool allows for a nuanced understanding of acupressure's effects on different symptom dimensions. Visual analog scales and Likert-type rating scales have also been employed to capture subjective symptom experiences and treatment satisfaction levels. These instruments offer the advantage of simplicity and ease of administration, making them particularly suitable for community-based research settings and patient self-assessment protocols. Gaikwad and Chinchpure's research demonstrated substantial improvements in morning sickness severity scores, with average scores decreasing from 12.35 to 9.05 following acupressure intervention.^[7] The statistical significance of these improvements (p < 0.0001) provides robust evidence for treatment efficacy while highlighting the clinical meaningfulness of observed changes.



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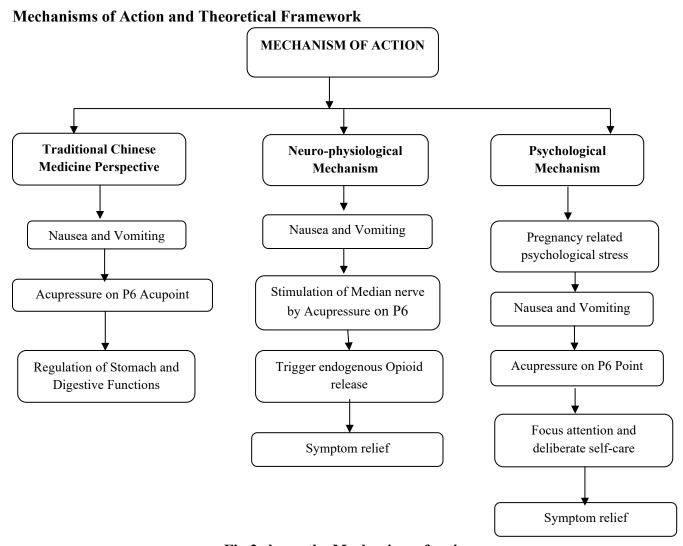


Fig.2 shows the Mechanism of action

Safety Profile and Adverse Effects

One of acupressure's most compelling advantages as a therapeutic intervention for pregnancy-related nausea and vomiting lies in its exceptional safety profile and minimal risk of adverse effects. This characteristic is particularly important during pregnancy, when concerns about potential teratogenic effects and maternal-fetal safety considerations significantly influence treatment decision-making. Across the reviewed literature, no studies reported significant adverse effects associated with acupressure intervention. This safety record is particularly noteworthy given the vulnerable population involved and the extended treatment durations employed in many studies. The non-invasive nature of acupressure, involving only external pressure application without skin penetration or pharmaceutical agents, contributes to its favorable safety profile. Minor discomfort at pressure application sites represents the most commonly reported side effect, though even this is infrequently documented and typically resolves quickly with technique modification or reduced pressure intensity. The absence of systemic side effects contrasts favorably with pharmacological alternatives, which may cause drowsiness, constipation, or other systemic effects that could impact maternal well-being or fetal development. The safety profile extends beyond immediate adverse effects to encompass broader considerations of treatment sustainability and long-term use. Unlike pharmaceutical interventions that



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may require dose adjustments or monitoring for cumulative effects, acupressure can be safely administered throughout pregnancy without concerns about tolerance development or withdrawal effects.

Cost-Effectiveness and Accessibility Considerations

Acupressure's cost-effectiveness represents a significant advantage in healthcare resource allocation and patient accessibility. The technique requires no specialized equipment beyond optional acupressure wristbands, which are relatively inexpensive and reusable. Manual acupressure techniques can be performed without any additional materials, using only finger pressure applied to designated anatomical points. Training requirements for acupressure implementation are minimal compared to other complementary therapies. Healthcare providers can easily learn basic acupressure techniques and teach them to patients for self-administration. This educational approach empowers patients to manage their symptoms independently while reducing healthcare system utilization for routine symptom management. The technique's simplicity makes it particularly suitable for implementation in resourcelimited settings or communities with limited access to specialized healthcare services. Rural or underserved populations can benefit from acupressure's therapeutic effects without requiring expensive equipment or frequent healthcare facility visits. Community health worker training programs could readily incorporate acupressure education, extending treatment access to broader populations while building local healthcare capacity. This approach aligns with global health initiatives emphasizing sustainable, community-based interventions that address common health challenges through accessible, evidence-based methods.

Traditional Chinese Medicine Perspective

From a traditional Chinese medicine perspective, acupressure's therapeutic effects are understood through the framework of qi (vital energy) regulation and meridian system balance. According to this theoretical model, illness and symptoms result from disrupted energy flow through specific pathways called meridians. The P6 acupoint, located on the pericardium meridian, is believed to regulate stomach and digestive system function while harmonizing overall energy balance. Pregnancy is understood within traditional Chinese medicine as a period of significant physiological transformation requiring careful energy balance maintenance. Morning sickness symptoms are interpreted as manifestations of rebellious stomach qi, where normal downward energy flow becomes disrupted, causing nausea and vomiting. P6 acupoint stimulation is thought to restore proper energy flow direction and harmonize stomach function. While modern scientific validation of these traditional concepts remains ongoing, the consistent clinical effectiveness observed across multiple studies suggests that traditional acupoint selection and treatment protocols may have empirical validity even if the underlying theoretical framework differs from contemporary biomedical understanding.

Neurophysiological Mechanisms

Contemporary research has begun elucidating potential neurophysiological mechanisms underlying acupressure's therapeutic effects, particularly regarding nausea and vomiting control. The P6 acupoint's anatomical location corresponds to the distribution of the median nerve, suggesting that pressure stimulation may influence neural pathways involved in symptom generation and regulation. Acupressure stimulation may activate descending pain inhibition pathways and trigger endogenous



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opioid release, contributing to symptom relief through central nervous system modulation. These mechanisms could explain the delayed onset and cumulative nature of therapeutic effects observed in several studies, as neuroplasticity changes typically require time to develop and consolidate. The gate control theory of pain provides another potential explanatory framework, suggesting that mechanical pressure stimulation may interfere with nociceptive signal transmission and modify sensory processing in ways that reduce nausea perception and vomiting reflexes. Research investigating heart rate variability changes following acupressure intervention has suggested autonomic nervous system effects, with potential implications for gastrointestinal motility regulation and symptom control. These findings provide biological plausibility for observed clinical improvements while opening avenues for further mechanistic research.

Placebo Effects and Psychological Mechanisms

The role of placebo effects in acupressure's therapeutic benefits requires careful consideration, particularly given the challenges associated with blinding participants to pressure-based interventions. However, several factors suggest that placebo effects alone cannot fully explain observed treatment benefits. The dose-response relationships observed in studies employing different intervention intensities suggest specific therapeutic effects beyond placebo responses. Additionally, the delayed onset of benefits in some studies contrasts with typical placebo effect patterns, which often manifest immediately following intervention initiation. Psychological mechanisms may contribute to therapeutic outcomes through stress reduction, perceived control enhancement, and anxiety amelioration. Pregnancy can be associated with significant psychological stress, and interventions that provide patients with active symptom management strategies may yield psychological benefits that complement direct physiological effects. The ritual aspects of acupressure practice, including focused attention and deliberate self-care behaviors, may contribute to overall well-being improvements that extend beyond specific symptom relief. These holistic benefits align with patient-centered care approaches that emphasize comprehensive well-being rather than isolated symptom management.

Clinical Implementation and Practice Guidelines Patient Selection Criteria

Appropriate patient selection represents a crucial component of successful acupressure implementation for pregnancy-related nausea and vomiting. Most studies have focused on women experiencing mild to moderate symptoms during the first trimester, typically between 6-16 weeks gestation. This timeframe corresponds to peak morning sickness prevalence and severity, making it an optimal intervention period. Exclusion criteria commonly employed in research studies include severe hyperemesis gravidarum requiring medical intervention, multiple pregnancies, significant medical comorbidities, and previous adverse reactions to acupressure or similar interventions. These criteria help ensure patient safety while identifying individuals most likely to benefit from the intervention. Primigravida women have been specifically studied in several trials, though research suggests that parity does not significantly influence treatment outcomes. Gaikwad and Chinchpure found no significant association between parity and morning sickness score improvements, indicating that acupressure benefits extend across different pregnancy experiences.^[7] Healthcare providers should assess symptom severity using standardized tools before recommending acupressure intervention, ensuring that treatment intensity matches patient needs and that severe cases receive appropriate medical evaluation and management.



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Training and Education Requirements

Healthcare provider training for acupressure implementation requires relatively minimal time investment while ensuring safe and effective technique delivery. Basic training should include anatomical landmark identification for P6 acupoint location, proper pressure application techniques, and patient education strategies for self-administered treatment. Hands-on practice sessions help providers develop confidence in technique demonstration and patient instruction. Training should emphasize the importance of consistent pressure application, appropriate duration timing, and recognition of proper technique indicators such as mild aching or tingling sensations at the acupoint site. Patient education represents a critical component of successful acupressure implementation. Clear, simple instructions regarding acupoint location, pressure application techniques, and recommended treatment schedules help ensure consistent home practice and optimal therapeutic outcomes. Written materials or visual aids can supplement verbal instruction and serve as ongoing reference resources. Follow-up protocols should include symptom monitoring, technique review, and troubleshooting for patients experiencing difficulties with self-administration. Regular assessment allows for technique refinement and ensures sustained treatment adherence throughout the intervention period.

Integration with Conventional Care

Acupressure should be implemented as a complementary intervention alongside conventional prenatal care rather than as a replacement for standard medical management. Healthcare providers should maintain awareness of patients using acupressure and monitor for any changes in symptom patterns or treatment needs. Communication between healthcare team members is essential for coordinated care delivery. Obstetricians, midwives, and other prenatal care providers should be informed about patients using acupressure interventions to ensure comprehensive care planning and avoid potential interactions with other treatments. Documentation of acupressure use and treatment outcomes should be included in patient medical records, contributing to continuity of care and supporting evidence-based practice development. Standardized documentation protocols can facilitate research data collection and quality improvement initiatives. For patients with severe symptoms or those not responding adequately to acupressure intervention, prompt referral for medical evaluation and potential pharmacological management should be initiated. Acupressure should not delay appropriate medical care for severe or refractory cases.

Future Research Directions and Recommendations Methodological Improvements

Future research should prioritize large-scale, multi-center randomized controlled trials with adequate statistical power to detect clinically meaningful differences between treatment and control groups. Many existing studies have been limited by small sample sizes that may have been insufficient to demonstrate statistical significance despite clinically relevant improvements. Standardization of intervention protocols represents another important research priority. Variations in pressure application duration, frequency, and technique across studies make it difficult to establish optimal treatment parameters. Consensus development regarding standardized protocols would facilitate more reliable comparison across studies and improve clinical implementation guidelines. Long-term follow-up studies are needed to assess sustained treatment benefits and potential effects on pregnancy outcomes beyond symptom relief. Understanding whether acupressure intervention influences maternal weight gain, fetal growth parameters, or other pregnancy outcomes would provide valuable information for



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comprehensive care planning. Dose-response relationship studies could help establish optimal treatment intensity and duration parameters. Investigating whether more intensive intervention protocols yield proportionally greater benefits would inform clinical practice guidelines and help individualize treatment approaches based on symptom severity and patient preferences.

Mechanistic Research Opportunities

Neuroimaging studies investigating brain activity changes following acupressure intervention could provide insights into central nervous system mechanisms underlying therapeutic effects. Functional magnetic resonance imaging or positron emission tomography studies might reveal specific neural pathway activation patterns associated with symptom improvement. Biomarker research examining hormonal, inflammatory, or neurotransmitter changes following acupressure treatment could elucidate physiological mechanisms and identify predictive factors for treatment response. Understanding individual variation in treatment response could enable personalized medicine approaches. Autonomic nervous system function assessment through heart rate variability analysis, gastric motility studies, or other physiological measures could provide objective evidence of acupressure's effects on systems relevant to nausea and vomiting control. Genetic studies investigating polymorphisms in neurotransmitter receptors, pain processing pathways, or other relevant systems might explain individual differences in treatment response and help identify patients most likely to benefit from acupressure intervention.

Clinical Application Studies

Community-based implementation studies are needed to evaluate acupressure's effectiveness in real-world settings with diverse patient populations and varying healthcare resource availability. Understanding implementation barriers and facilitators would inform broader dissemination strategies. Comparative effectiveness research examining acupressure against other non-pharmacological interventions (dietary modifications, aromatherapy, behavioral interventions) could help establish optimal multimodal treatment approaches and identify synergistic combinations. Economic evaluation studies assessing cost-effectiveness compared to standard care or pharmaceutical alternatives would provide important information for healthcare policy decisions and resource allocation priorities. Integration studies exploring optimal methods for incorporating acupressure into existing prenatal care systems could identify best practices for clinical implementation and provider training programs.

Conclusion

The comprehensive analysis of current literature provides compelling evidence supporting acupressure therapy as an effective, safe, and accessible intervention for managing pregnancy-related nausea and vomiting. Multiple high-quality studies have consistently demonstrated statistically significant improvements in symptom severity, frequency, and associated distress levels following P6 acupoint stimulation. The intervention's non-invasive nature, minimal side effect profile, and ease of implementation make it particularly suitable for pregnant women seeking alternatives to pharmacological treatments. The evidence base encompasses diverse methodological approaches, from randomized controlled trials to community-based studies, demonstrating consistent therapeutic benefits across different settings and populations. Effect sizes observed in reviewed studies indicate clinically meaningful improvements, with many participants experiencing 50-70% reductions in symptom severity scores. These findings support acupressure's integration into comprehensive prenatal care protocols as a first-line intervention for mild to moderate morning sickness symptoms. The technique's



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cost-effectiveness and accessibility represent additional advantages that enhance its clinical utility and potential for widespread implementation. Healthcare providers can easily learn and teach acupressure techniques, empowering patients to manage their symptoms independently while reducing healthcare system utilization. This approach aligns with patient-centered care principles and evidence-based practice guidelines emphasizing safe, effective interventions that minimize unnecessary medication exposure during pregnancy. Future research should focus on optimizing intervention protocols, elucidating underlying mechanisms, and evaluating long-term outcomes to further strengthen the evidence base and refine clinical implementation strategies.

Take Home Message

Acupressure therapy, particularly P6 acupoint stimulation, represents a valuable non-pharmacological intervention for managing pregnancy-related nausea and vomiting. The technique offers significant therapeutic benefits with minimal risks, making it an ideal first-line treatment option for pregnant women experiencing morning sickness symptoms. Healthcare providers should consider incorporating acupressure education into routine prenatal care, empowering patients with safe, effective selfmanagement strategies. The intervention's simplicity, cost-effectiveness, and strong safety profile make it accessible to diverse patient populations, including those in resource-limited settings. Multiple highquality studies have demonstrated consistent improvements in symptom severity and frequency, supporting its evidence-based clinical application. Patients can safely use acupressure throughout pregnancy without concerns about adverse effects or drug interactions. Implementation requires minimal training and equipment, making it practical for widespread adoption in various healthcare settings. Healthcare providers should view acupressure as a complementary intervention that enhances rather than replaces conventional prenatal care, offering patients additional options for symptom management while maintaining comprehensive medical oversight. The growing evidence base supports broader integration of acupressure into standard prenatal care protocols, potentially improving maternal comfort and quality of life during early pregnancy while reducing reliance on pharmacological interventions.

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