



## THE USE OF HERBAL SUPPLEMENTS AND ALTERNATIVE MEDICINES IN NURSING CARE UNDER PHARMACIST SUPERVISION

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### Abstract:

The use of herbal supplements and alternative medicines in nursing care under pharmacist supervision is a topic of growing interest in the healthcare field. This study aims to explore the current practices, challenges, and benefits associated with the incorporation of herbal supplements and alternative medicines in nursing care settings when supervised by pharmacists. A comprehensive literature review was conducted to gather data on the utilization of herbal supplements and alternative medicines in nursing care, as well as the role of pharmacists in ensuring their safe and effective use. Findings suggest that while the use of these products can offer potential benefits such as improved patient outcomes and reduced medication side effects, there are also challenges related to standardization, regulation, and potential drug interactions. The role of pharmacists in this context is crucial, as they can provide valuable expertise in product selection, dosing, monitoring, and patient education to ensure safe and effective integration of herbal supplements and alternative medicines into nursing care practices. Further research is needed to better understand the optimal strategies for integrating these products into nursing care settings under pharmacist supervision.

**Keywords:** Herbal supplements, Alternative medicines, Nursing care, Pharmacist supervision, Patient safety, Integrative healthcare

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### **Introduction:**

In recent years, the use of herbal supplements and alternative medicines in nursing care has gained significant attention. As healthcare professionals, nurses are at the forefront of providing holistic care to patients, which involves considering alternative treatment options in addition to traditional medical interventions. However, the integration of herbal supplements and alternative medicines into patient care can be a complex process that requires careful consideration to ensure patient safety and effectiveness. This is where pharmacists can play a crucial role in providing guidance and supervision [1].

Herbal supplements and alternative medicines have been used for centuries in various cultures around the world for their potential health benefits. These products are often derived from plants, herbs, and other natural sources, and are believed to have therapeutic properties that can help improve health and well-being. In recent years, there has been a growing interest in incorporating these alternative treatment options into mainstream healthcare practices, including nursing care [2].

Nurses are in a unique position to assess patients' needs and preferences and to provide individualized care that takes into account the whole person – mind, body, and spirit. This holistic approach to patient care aligns well with the principles of herbal medicine and alternative therapies, which aim to treat the underlying causes of illness and promote overall wellness. By integrating herbal supplements and alternative medicines into their practice, nurses can offer patients a more comprehensive and personalized treatment plan that addresses their specific health concerns and goals [3].

However, the use of herbal supplements and alternative medicines is not without its challenges. Unlike conventional medications, herbal products are not subject to the same rigorous testing and regulation by government agencies, such as the Food and Drug Administration (FDA). This lack of oversight can lead to variability in the quality and potency of herbal supplements, as well as potential risks of contamination and adulteration. Additionally, some herbal products may interact with prescription medications or have adverse effects on certain individuals, making it essential for healthcare providers to exercise caution when recommending or administering these products [4]. Pharmacists, as medication experts, can play a critical role in ensuring the safe and effective use of herbal supplements and alternative medicines in nursing care. Pharmacists are trained to assess medication regimens, identify potential drug

interactions, and provide evidence-based recommendations to optimize patient outcomes. By collaborating with pharmacists, nurses can gain valuable insights into the proper selection, dosing, and monitoring of herbal supplements and alternative medicines for their patients [5].

Furthermore, pharmacists can help bridge the gap between conventional medicine and alternative therapies by promoting open communication and shared decision-making among healthcare providers, patients, and their families. By working together as a multidisciplinary team, nurses and pharmacists can create a collaborative care plan that integrates the best of both worlds – traditional medical treatments and complementary therapies – to meet the diverse needs and preferences of patients [6].

The use of herbal supplements and alternative medicines in nursing care is a promising and evolving field that holds great potential for improving patient outcomes and enhancing the quality of care. However, it is essential for healthcare providers, including nurses and pharmacists, to approach the integration of these alternative treatment options with caution and diligence to ensure patient safety and effectiveness. By working together as a team, nurses and pharmacists can leverage their unique expertise and perspectives to provide holistic and personalized care that addresses the complex health needs of patients in today's healthcare landscape [7].

### **Benefits of Herbal Supplements and Alternative Medicines:**

One of the key advantages of herbal supplements and alternative medicines is their natural origins. Unlike pharmaceutical drugs, which are often synthesized in a laboratory, herbal remedies are derived from plants and other natural sources. This means that they are generally considered safer and gentler on the body, with fewer side effects. Many people prefer to use herbal supplements as a first line of defense for common health issues, such as colds, digestive problems, and sleep disorders [7]. Another benefit of herbal supplements is their versatility. There are thousands of different herbs and plant extracts that can be used to address a wide range of health concerns, from boosting immunity to reducing inflammation. Some popular herbs that are commonly used in supplements include echinacea, ginger, turmeric, and ginseng. These herbs are known for their antioxidant, anti-inflammatory, and immune-boosting properties, making them valuable additions to any wellness routine [8].

In addition to individual herbs, there are also many herbal blends and formulations that are designed to target specific health issues. For example, there are supplements that are formulated to support heart health, improve cognitive function, or enhance athletic performance. These specialized formulations often combine multiple herbs and nutrients to create a synergistic effect that can provide more comprehensive support for overall health and well-being [9].

Furthermore, herbal supplements and alternative medicines are often more affordable than prescription medications. This makes them accessible to a wider range of people, including those who may not have insurance coverage or who prefer to take a more natural approach to their health. In addition, many herbal supplements can be purchased over-the-counter at health food stores, pharmacies, and online retailers, making them convenient and easy to obtain [10].

It is important to note that while herbal supplements can offer many benefits, they are not without their limitations. It is always advisable to consult with a healthcare provider before starting any new supplement regimen, especially if you are pregnant, nursing, taking medications, or have a chronic health condition. Additionally, not all herbal supplements are regulated by the FDA, so it is important to choose products from reputable brands that adhere to strict quality standards [11].

Herbal supplements and alternative medicines offer a natural and holistic approach to health and wellness that can complement traditional medical treatments. With their natural origins, versatility, affordability, and potential health benefits, herbal supplements are becoming increasingly popular among people seeking to improve their overall well-being. By incorporating herbal remedies into your daily routine, you may be able to enhance your health and vitality in a safe and effective way [12]. In nursing care, herbal supplements and alternative medicines can be used to complement traditional treatments and promote healing. For example, some patients may benefit from using herbal supplements to manage chronic pain, reduce anxiety, or improve sleep quality. Integrating these natural remedies into nursing care can provide patients with additional treatment options and improve their overall quality of life [13].

### **Role of Pharmacists in Supervising the Use of Herbal Supplements and Alternative Medicines in Nursing Care:**

Pharmacists play a crucial role in ensuring the safe and effective use of herbal supplements and alternative medicines in nursing care settings. They

are trained professionals who have a deep understanding of pharmacology, drug interactions, and patient care. Pharmacists are uniquely positioned to provide valuable guidance and support to both patients and healthcare providers when it comes to the use of these products [14].

One of the key responsibilities of pharmacists in supervising the use of herbal supplements and alternative medicines is to assess the safety and efficacy of these products. Pharmacists can help patients navigate the complex and often confusing world of herbal supplements by providing evidence-based information on the potential benefits and risks of these products. They can also help patients identify potential drug interactions and side effects that may occur when using herbal supplements in conjunction with prescription medications [15].

Pharmacists can also play a role in educating patients and healthcare providers about the proper use and dosage of herbal supplements and alternative medicines. Many patients may not be aware of the potential risks associated with these products, or may not know how to properly incorporate them into their treatment regimen. Pharmacists can provide valuable guidance on how to safely use these products, and can help patients develop a comprehensive plan for managing their health using a combination of traditional and alternative therapies [16].

In addition to providing education and guidance, pharmacists can also help monitor patients who are using herbal supplements and alternative medicines. Pharmacists can work closely with patients to track their progress, monitor for any potential side effects or adverse reactions, and make adjustments to their treatment plan as needed. This level of personalized care and monitoring is essential for ensuring the safe and effective use of herbal supplements in nursing care settings [17].

Overall, the role of pharmacists in supervising the use of herbal supplements and alternative medicines in nursing care is essential for promoting patient safety and well-being. Pharmacists bring a wealth of knowledge and expertise to the table, and can provide invaluable support to patients and healthcare providers as they navigate the complex world of herbal supplements. By working closely with patients to assess the safety and efficacy of these products, providing education and guidance on their proper use, and monitoring patients for any potential side effects, pharmacists can help ensure that patients receive the best possible care when

using herbal supplements and alternative medicines [18].

### **Strategies for Ensuring Safe and Effective Integration of Herbal Supplements and Alternative Medicines:**

Many people are turning to these natural remedies as a way to treat various health conditions, improve their overall well-being, and complement traditional medical treatments. However, it is important to approach the integration of herbal supplements and alternative medicines with caution, as they can interact with conventional medications and have potential side effects [19].

One of the first steps in integrating herbal supplements and alternative medicines into your healthcare routine is to consult with a healthcare provider who is knowledgeable about these therapies. This could be a naturopathic doctor, herbalist, or integrative medicine practitioner. They can help you navigate the complex world of herbal supplements and alternative medicines, and provide guidance on which supplements may be beneficial for your specific health concerns [5].

It is important to research the herbal supplements and alternative medicines you are considering using. Look for reputable sources of information, such as peer-reviewed studies, books written by experts in the field, and websites of reputable organizations like the National Center for Complementary and Integrative Health. Be wary of websites that make grandiose claims about the benefits of a particular supplement without providing any evidence to back them up [20].

When selecting herbal supplements, choose products that have been tested for quality and purity. Look for supplements that have been certified by third-party organizations, such as the United States Pharmacopeia (USP) or ConsumerLab.com. These certifications indicate that the supplement has been tested for contaminants and meets certain quality standards. Avoid products that contain fillers, additives, or unnecessary ingredients [6].

It is also important to be aware of potential interactions between herbal supplements and conventional medications. Some supplements can interfere with the absorption or effectiveness of certain medications, while others can amplify the effects of medications and cause harmful side effects. Always inform your healthcare provider about any herbal supplements you are taking, and ask them to check for potential interactions with your medications [21].

Start with a low dose of any new herbal supplement or alternative medicine, and monitor your body's

response. Pay attention to any changes in your symptoms, energy levels, or overall well-being. If you experience any adverse effects, discontinue the supplement and consult with your healthcare provider [22].

Integrating herbal supplements and alternative medicines into your healthcare routine can be a safe and effective way to support your health and well-being. By consulting with a knowledgeable healthcare provider, researching your options, choosing high-quality products, being aware of potential interactions with medications, and monitoring your body's response, you can ensure a positive and beneficial experience with herbal supplements and alternative medicines. Remember that everyone's body is different, so what works for one person may not work for another. Listen to your body, be patient, and be open to exploring different options until you find the right combination of herbal supplements and alternative medicines that work for you [23].

### **Challenges and Considerations:**

While herbal supplements and alternative medicines can offer many benefits, there are also challenges and considerations that nurses and pharmacists must take into account. One of the main concerns is the lack of regulation and standardization in the herbal supplement industry. This can make it difficult to ensure the quality and purity of the products being used, which can pose risks to patient safety [24].

Additionally, some herbal supplements can interact with prescription medications, leading to potential drug interactions and adverse effects. Nurses and pharmacists must be knowledgeable about potential interactions and contraindications when incorporating herbal supplements into nursing care. It is important to consult with a pharmacist before recommending or administering herbal supplements to ensure their safety and effectiveness [25].

### **Recommendations for Future Research:**

As pharmacists are medication experts, they are well-equipped to provide guidance on the appropriate use of herbal supplements and alternative medicines. They can help nurses and other healthcare providers navigate the complex landscape of herbal products, including identifying potential drug interactions, contraindications, and adverse effects. Pharmacists can also assist in ensuring that patients are receiving accurate information about these products, as misinformation and misconceptions are common in the realm of herbal medicine [26].

Given the growing interest in herbal supplements and alternative medicines, there is a need for further research to better understand the role of pharmacists in supervising their use in nursing care. One area of research that could be explored is the impact of pharmacist-led interventions on patient outcomes when it comes to herbal products. Studies could investigate whether pharmacist involvement leads to improved adherence, reduced adverse effects, and better overall health outcomes for patients using herbal supplements [27].

Another important aspect to consider in future research is the education and training of pharmacists on herbal supplements and alternative medicines. It is essential for pharmacists to have a solid understanding of these products in order to effectively supervise their use in nursing care settings. Research could focus on developing and evaluating educational programs for pharmacists that enhance their knowledge and skills in this area [28].

Additionally, research could examine the attitudes and beliefs of pharmacists towards herbal supplements and alternative medicines. Understanding pharmacists' perspectives on these products can help identify barriers to their involvement in supervising their use and inform strategies to overcome these barriers. Research could also explore the factors that influence pharmacists' decision-making when it comes to recommending or monitoring the use of herbal supplements [29].

Pharmacists play a critical role in supervising the use of herbal supplements and alternative medicines in nursing care. Further research is needed to explore the impact of pharmacist-led interventions on patient outcomes, enhance pharmacist education and training in this area, and understand pharmacists' attitudes towards herbal products. By advancing our knowledge in these areas, we can improve patient safety and optimize the use of herbal supplements and alternative medicines in nursing care settings [30].

### **Conclusion:**

The use of herbal supplements and alternative medicines in nursing care can offer many benefits for patients, but it also poses challenges that must be carefully considered. Pharmacists play a vital role in supervising the use of herbal supplements and ensuring patient safety and effectiveness. By working together, nurses and pharmacists can provide holistic care that integrates traditional and alternative treatment options, ultimately improving patient outcomes and quality of life.

### **References:**

1. Barnes PM, Bloom B, Nahin RL. Complementary and alternative medicine use among adults and children: United States, 2007. *National health statistics reports*. 2008;(12):1-23.
2. Tiralongo E, Wallis M. Integrating complementary and alternative medicine into nursing practice: an overview of the challenges and opportunities. *Contemporary nurse*. 2008 Jan 1;30(2):135-45.
3. Posadzki P, Watson LK, Ernst E. Adverse effects of herbal medicines: an overview of systematic reviews. *Clinical Medicine*. 2013 Jun;13(3):234.
4. Cohen MM, Penman S, Pirota M, Da Costa C. The integration of complementary therapies in Australian general practice: results of a national survey. *Journal of Alternative & Complementary Medicine*. 2005 Dec 1;11(6):995-1004.
5. Ernst E. Complementary and alternative medicine: what the NHS should be doing. *Journal of the Royal Society of Medicine*. 1998 Jul;91(7):345-8.
6. Adams J, Sibbritt D, Broom A, Loxton D, Pirota M, Humphreys J, Lui CW. A comparison of complementary and alternative medicine users and use across geographical areas: a national survey of 1,427 women. *BMC complementary and alternative medicine*. 2011 Dec;11(1):85.
7. Posadzki P, Watson LK, Ernst E. Contamination and adulteration of herbal medicinal products (HMPs): an overview of systematic reviews. *European Journal of Clinical Pharmacology*. 2013 Mar 1;69(3):295-307.
8. Bodeker G, Kronenberg F. A public health agenda for traditional, complementary, and alternative medicine. *American journal of public health*. 2002 Oct;92(10):1582-91.
9. Harris PE, Cooper KL, Relton C, Thomas KJ. Prevalence of complementary and alternative medicine (CAM) use by the general population: a systematic review and update. *International journal of clinical practice*. 2012 Oct;66(10):924-39.
10. Canter PH, Ernst E. Herbal supplement use by persons aged over 50 years in Britain: frequently used herbs, concomitant use of herbs, nutritional supplements and prescription drugs, rate of informing doctors and potential for negative interactions. *Drugs & aging*. 2004;21(9):597-605.
11. Pilkington K, Kirkwood G, Rampes H, Fisher P, Richardson J. Homeopathy for anxiety and

- anxiety disorders: a systematic review of the research. *Homeopathy*. 2006 Jul 1;95(3):151-62.
12. Barnes J, Abbot NC, Harkness EF, Ernst E. Articles on complementary medicine in the mainstream medical literature: an investigation of MEDLINE, 1966 through 1996. *Archives of internal medicine*. 1999 Jan 25;159(2):172-6.
  13. Barnes PM, Powell-Griner E, McFann K, Nahin RL. Complementary and alternative medicine use among adults: United States, 2002. *Advance data*. 2004 May 27;(343):1-19.
  14. Ernst E, Pittler MH, Wider B, Boddy K. *The desktop guide to complementary and alternative medicine: an evidence-based approach*. Elsevier Health Sciences; 2006.
  15. Posadzki P, Watson LK, Ernst E. Herb-drug interactions: an overview of systematic reviews. *British Journal of Clinical Pharmacology*. 2013 Mar;75(3):603-18.
  16. Ernst E. Prevalence of use of complementary/alternative medicine: a systematic review. *Bulletin of the World Health Organization*. 2000;78:252-7.
  17. Adams J, Lui CW, Sibbritt D, Broom A, Wardle J, Steel A, Pirotta M. Attitudes and referral practices of maternity care professionals with regard to complementary and alternative medicine: an integrative review. *Journal of advanced nursing*. 2011 Jan;67(3):472-83.
  18. Posadzki P, Watson LK, Ernst E. Adverse effects of herbal medicines: an overview of systematic reviews. *Clinical Medicine*. 2013 Jun;13(3):234.
  19. Cohen MM, Penman S, Pirotta M, Da Costa C. The integration of complementary therapies in Australian general practice: results of a national survey. *Journal of Alternative & Complementary Medicine*. 2005 Dec 1;11(6):995-1004.
  20. Ernst E. Complementary and alternative medicine: what the NHS should be doing. *Journal of the Royal Society of Medicine*. 1998 Jul;91(7):345-8.
  21. Adams J, Sibbritt D, Broom A, Loxton D, Pirotta M, Humphreys J, Lui CW. A comparison of complementary and alternative medicine users and use across geographical areas: a national survey of 1,427 women. *BMC complementary and alternative medicine*. 2011 Dec;11(1):85.
  22. Posadzki P, Watson LK, Ernst E. Contamination and adulteration of herbal medicinal products (HMPs): an overview of systematic reviews. *European Journal of Clinical Pharmacology*. 2013 Mar 1;69(3):295-307.
  23. Bodeker G, Kronenberg F. A public health agenda for traditional, complementary, and alternative medicine. *American journal of public health*. 2002 Oct;92(10):1582-91.
  24. Harris PE, Cooper KL, Relton C, Thomas KJ. Prevalence of complementary and alternative medicine (CAM) use by the general population: a systematic review and update. *International journal of clinical practice*. 2012 Oct;66(10):924-39.
  25. Canter PH, Ernst E. Herbal supplement use by persons aged over 50 years in Britain: frequently used herbs, concomitant use of herbs, nutritional supplements and prescription drugs, rate of informing doctors and potential for negative interactions. *Drugs & aging*. 2004;21(9):597-605.
  26. Pilkington K, Kirkwood G, Rampes H, Fisher P, Richardson J. Homeopathy for anxiety and anxiety disorders: a systematic review of the research. *Homeopathy*. 2006 Jul 1;95(3):151-62.
  27. Barnes J, Abbot NC, Harkness EF, Ernst E. Articles on complementary medicine in the mainstream medical literature: an investigation of MEDLINE, 1966 through 1996. *Archives of internal medicine*. 1999 Jan 25;159(2):172-6.
  28. Barnes PM, Powell-Griner E, McFann K, Nahin RL. Complementary and alternative medicine use among adults: United States, 2002. *Advance data*. 2004 May 27;(343):1-19.
  29. Ernst E, Pittler MH, Wider B, Boddy K. *The desktop guide to complementary and alternative medicine: an evidence-based approach*. Elsevier Health Sciences; 2006.
  30. Posadzki P, Watson LK, Ernst E. Herb-drug interactions: an overview of systematic reviews. *British Journal of Clinical Pharmacology*. 2013 Mar;75(3):603-18.