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Traditional Cancer Treatments in West Africa: Historical Practices, Current Approaches, and Future Directions

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ABSTRACT

Cancer treatment in West Africa is shaped by a rich tapestry of traditional practices and modern approaches, reflecting both cultural heritage and contemporary medical advancements. This review explores the historical and current landscape of traditional cancer treatments in the region, emphasizing herbal remedies, spiritual practices, and the integration of traditional and modern medical approaches. Traditional cancer treatments often involve plant-based remedies such as African horned cucumber, baobab tree, and soursop, known for their antioxidant, anti-inflammatory, and potential anti-cancer properties. Spiritual and ritualistic practices, including prayer, energy healing, and sacred rituals, offer holistic support, addressing the psychological and emotional aspects of illness. The review examines the integration of traditional and modern practices, highlighting the potential benefits of a collaborative approach while addressing challenges such as safety, efficacy, and cultural sensitivity. Research efforts are focused on validating traditional treatments through scientific studies, standardizing remedies, and ensuring safety. Socioeconomic and cultural factors significantly influence treatment choices, with traditional medicine often serving as a more accessible and culturally resonant option for many patients. Case studies and community experiences provide valuable insights into the practical application of these treatments and underscore the importance of respecting cultural contexts. This review aims to provide a comprehensive understanding of traditional cancer treatments in West Africa, offering recommendations for future research and practice to enhance cancer care through an integrative and culturally sensitive approach.

Keywords: Traditional Cancer Treatments, West Africa: Historical Practices.

INTRODUCTION

Cancer treatment in West Africa is deeply intertwined with traditional practices that have evolved over centuries. Rooted in ancient knowledge systems, traditional cancer treatments encompass a diverse range of methods, including herbal remedies, spiritual practices, and ritualistic approaches [1]. These treatments reflect a rich cultural heritage and represent a significant component of the health care system in many West African communities. Traditional cancer care in West Africa relies heavily on herbal remedies and plant-based treatments, which contain antioxidants, anti-inflammatory agents, and other phytochemicals. Spiritual and ritualistic approaches, such as prayer and sacred rituals, provide holistic care and address the psychological, emotional, and cultural dimensions of illness [2]. The integration of traditional and modern medical practices presents both opportunities and challenges. Successful integration requires careful monitoring to avoid potential interactions and ensure traditional remedies do not interfere with conventional treatments [3]. Collaborative models between traditional healers and modern practitioners can facilitate this integration, fostering a more inclusive and culturally sensitive approach to cancer care. Efficacy and safety of traditional cancer treatments are critical areas of investigation, with research efforts focusing on validating their effectiveness through scientific studies and preclinical trials [4]. Socioeconomic and cultural factors significantly influence treatment choices, and understanding these factors is crucial for developing strategies that address diverse patient needs and ensure equitable access to care. Research and innovations in traditional cancer treatments are driving progress, with ongoing efforts to identify active compounds, standardize remedies, and integrate traditional knowledge with

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modern science. Ethical considerations and cultural sensitivity are essential in the practice and research of traditional cancer treatments [5]. Case studies and success stories provide valuable insights into the practical application of these approaches. This review will explore the historical and contemporary landscape of traditional cancer treatments in West Africa, examining the roles of herbal remedies, spiritual practices, and the integration of traditional and modern approaches. By documenting case studies, analyzing community experiences, and addressing research, efficacy, safety, and ethical considerations, this review aims to provide a comprehensive understanding of traditional cancer treatments and their implications for future research and practice [6].

Herbal Remedies and Plant-Based Treatments

Herbal remedies and plant-based treatments for cancer in West Africa include African horned cucumber, baobab tree, African pepper, soursop, and African ginger. These plants are used for various ailments, including cancer, and their nutritional and medicinal properties are known for their potential to address cancer symptoms [7]. Preparation and administration of herbal remedies involve steeping medicinal plants in boiling water to extract their active compounds, which are then consumed as teas or decoctions. Plant materials are crushed or ground into a paste and applied directly to the skin for local treatment. Extracts and tinctures are soaked in alcohol or another solvent to create concentrated forms of the remedy, and powders and capsules are taken orally [8]. Active compounds in herbal remedies include antioxidants, anti-inflammatory agents, alkaloids and terpenoids, antimicrobial and antiviral agents, immune system modulators, and phytochemicals with specific anti-cancer effects. Antioxidants neutralize free radicals and reduce oxidative stress, which can help prevent damage to DNA and other cellular components, potentially reducing cancer risk. Anti-inflammatory agents can help mitigate cancer-related inflammation and potentially reduce tumor growth and spread [9]. Alkaloids and terpenoids can induce apoptosis in cancer cells, inhibit tumor growth, and prevent metastasis. Antimicrobial and antiviral agents can help prevent infections, particularly important for cancer patients with compromised immune systems. Herbal remedies and plant-based treatments for cancer in West Africa offer a diverse and complex approach to cancer treatment. Understanding the preparation methods and active compounds involved can provide insight into the potential benefits and mechanisms of these treatments [10].

Spiritual and Ritualistic Approaches to Cancer Treatment

Spiritual and ritualistic approaches to cancer treatment in West Africa involve a range of practices and roles deeply rooted in cultural traditions. These practices complement or sometimes replace herbal remedies, providing psychological, emotional, and cultural support that plays a significant role in the overall care of cancer patients [11]. Prayer and invocation are common spiritual practices used in conjunction with herbal remedies or as standalone practices. Sacred rituals and offerings involve offerings, sacrifices, and ceremonies to appease spirits, ancestors, or deities believed to influence health. Meditation and visualization techniques are used to achieve mental and spiritual clarity, aiding in physical healing. Energy healing practices involve balancing the body's spiritual and physical energies, using techniques such as laying of hands or channeling energy. Spiritual cleansing and purification involve removing negative energies or spiritual blockages believed to affect health [12]. Dream interpretation is another important aspect of spiritual practices in cancer treatment. Spiritual leaders, such as priests, priestesses, or spiritual counselors, offer guidance and support through prayer, rituals, and counseling. Community elders hold spiritual authority and offer wisdom based on traditional knowledge. The cultural and psychological impact of spiritual practices on cancer patients is significant. They offer cultural identity and support, provide psychological comfort and hope, contribute to holistic healing, strengthen social bonds and support networks, and help patients cope with stigma and fear associated with cancer. Overall, spiritual and ritualistic approaches to cancer treatment in West Africa provide a range of practices and roles that play a significant role in the overall care of cancer patients [13].

Integration of Traditional and Modern Medical Practices

The integration of traditional and modern medical practices in cancer treatment can provide a more comprehensive and culturally sensitive approach to care [14]. Traditional medicine is often used alongside modern oncology treatments to support overall well-being and alleviate symptoms. Herbal remedies, spiritual practices, and acupuncture can help manage symptoms that modern treatments might not fully address. In some cases, traditional medicine is integrated into formal treatment plans with input from both traditional and modern practitioners [15]. Incorporating traditional medicine respects and aligns with patients' cultural beliefs and preferences, contributing to a more holistic approach to care. Successful integration involves careful monitoring by healthcare providers to ensure that herbal treatments do not interfere with the efficacy of chemotherapy. In regions where traditional spirituality is prevalent, patients may combine modern cancer treatments with spiritual rituals aimed at enhancing mental strength and resilience [16]. Collaborative care models involve formal partnerships between modern healthcare facilities and traditional healers, leading to a more inclusive and patient-centered approach. The benefits of integration include holistic care, cultural sensitivity and acceptance, enhanced

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symptom relief, and increased patient engagement in treatment plans that align with their cultural values and practices. However, challenges include lack of standardization and regulation, potential for interactions and conflicts, cultural and professional barriers, and limited research and evidence. The integration of traditional and modern medical practices in cancer treatment offers the potential for more comprehensive and culturally sensitive care. However, it requires careful consideration of benefits and challenges, including ensuring safety, managing potential interactions, and fostering collaboration between different medical traditions [17].

Efficacy and Safety of Traditional Cancer Treatments

The efficacy and safety of traditional cancer treatments are evaluated through scientific research, observational studies, and preclinical trials [18]. Clinical trials provide evidence on the effectiveness of traditional treatments, such as herbal remedies that may enhance conventional treatments or manage side effects. Observational studies offer insights into the real-world effectiveness of traditional treatments. However, challenges in research include small sample sizes, lack of rigorous methodologies, and variations in preparation and dosage. Safety profiles and potential side effects of traditional treatments are assessed, including toxicity, interactions with conventional treatments, and potential side effects [19]. Traditional herbs may have beneficial effects but could also interact with chemotherapy drugs, leading to potential adverse effects or reduced efficacy. Interactions with modern cancer therapies can also affect treatment outcomes or cause harm. Efforts to ensure the quality and standardization of traditional remedies include standardizing processes for cultivation, harvesting, and processing, standardizing ingredients and dosages, and establishing regulatory frameworks. Research and development efforts focus on improving the quality and efficacy of traditional treatments, with collaboration between traditional healers and modern scientists leading to better understanding and standardization [20]. Evaluating the efficacy and safety of traditional cancer treatments requires rigorous evaluation and collaboration between traditional practitioners, researchers, and regulatory bodies.

Socioeconomic and Cultural Factors Affecting Treatment Choices

Socioeconomic and cultural factors significantly influence cancer treatment choices. Economic barriers, such as the high cost of modern treatments, can limit access to necessary medical care for low-income individuals [21]. Traditional medicine may be more affordable, depending on local remedies, and may be chosen as a primary or supplementary treatment due to economic constraints. Healthcare infrastructure and access also influence access to modern treatments, with underdeveloped areas having limited access. Out-of-pocket expenses for medications, consultations, and follow-ups can affect treatment adherence and push individuals to seek alternative or supplementary traditional remedies [22]. Economic support and insurance can significantly impact access to both traditional and modern treatments. Cultural beliefs about health and illness influence treatment choices, with some cultures viewing cancer as a spiritual or supernatural affliction. Trust in traditional healers and their remedies often stems from cultural and historical practices. Skepticism about modern medicine can lead to a preference for traditional treatments, especially if modern treatments are perceived as foreign or less trustworthy. In some cultures, there is a preference for combining traditional and modern practices, with patients using traditional remedies to complement modern treatments [23]. The stigma surrounding cancer in certain cultures may lead individuals to seek traditional treatments discreetly. Community support systems, such as family and social networks, community-based health initiatives, traditional healing centers, educational and awareness programs, and government and non-governmental organizations, can also support access to traditional medicine. Understanding these factors is crucial for developing strategies that address the diverse needs and preferences of cancer patients in different contexts.

Research and Innovations in Traditional Cancer Treatments

Research and innovations in traditional cancer treatments are focusing on identifying active compounds, standardizing remedies, and integrating traditional and modern approaches. Current research initiatives include identifying active compounds from medicinal plants, conducting preclinical and clinical trials, standardizing and quality control, and integrating with modern technology [24]. Collaborations between traditional medicine practitioners and research institutions are also being formed to bridge traditional knowledge with scientific research. Institutional support is increasingly being provided to studies involving traditional medicine, including funding and resources for fieldwork and laboratory analysis. Community-based research involves community participation in documenting and testing traditional remedies for cancer. Educational programs and training are being offered to traditional medicine practitioners to incorporate scientific methods and evidence-based practices [25]. Future directions for research and development in traditional cancer treatments include exploring new plant species, developing combination therapies, and personalized medicine, establishing regulatory and safety frameworks, cross-cultural and global collaborations, and using advanced analytical techniques. Patient and community involvement is also being encouraged to ensure traditional treatments meet their needs and preferences. Ongoing research and innovations in traditional cancer treatments are focusing on identifying active

compounds, standardizing remedies, and integrating traditional and modern approaches. Collaborative research efforts between traditional healers and scientific institutions are crucial for advancing this field.

Ethical Considerations and Cultural Sensitivity

Ethical considerations and cultural sensitivity in traditional cancer treatments involve ensuring informed consent, respecting cultural practices, and supporting patient autonomy. This involves addressing potential lack of transparency about the efficacy and safety of traditional remedies, addressing ethical concerns related to the use of traditional knowledge, balancing promotion with evidence-based practice, ensuring safety and harm reduction, and Page | 8 addressing equity and access issues [26]. Cultural sensitivity involves respecting the cultural significance of traditional medicine practices and beliefs, engaging with local communities and traditional practitioners, involving community members and traditional healers in research and practice, adapting research methodologies to fit the cultural context of traditional medicine practices, establishing ethical guidelines that incorporate cultural competence, and navigating the intersection of traditional and modern medical perspectives in a culturally sensitive manner. Patient autonomy is crucial in traditional cancer treatment, as patients may not fully understand the implications of traditional treatments due to language barriers or lack of information. Solutions include providing clear, culturally appropriate information, respecting patient choices, maintaining confidentiality and privacy, and empowering patients to make informed decisions about their treatment options. Ethical decisionmaking processes should support ethical decision-making processes that respect patients' values and cultural beliefs while ensuring they are fully informed [27]. Encouraging open communication and ethical deliberation can address conflicts and support patient-centered care. By addressing these aspects, researchers and practitioners can promote the ethical use of traditional treatments while respecting the cultural values and preferences of patients.

Case Studies and Success Stories

Case studies and community experiences with traditional cancer treatments provide valuable insights into the potential benefits and challenges of these approaches. They emphasize the importance of integrating traditional and modern practices, ensuring quality and safety, respecting cultural contexts, and supporting community networks. Notable cases include a Nigerian patient using herbal remedies alongside conventional treatments, a Ghanaian patient seeking treatment from a traditional healer, and a Senegalese woman using medicinal plants for her cancer treatment [20]. Community experiences in rural West Africa and urban areas highlight the need for integrating traditional and modern approaches to improve cancer care and support. Documentation and research are essential for understanding the efficacy and safety of traditional treatments, while addressing quality control and safety is crucial for ensuring consistent quality and minimizing risks. Respecting patients' cultural beliefs and preferences is essential for effective care and positive treatment outcomes. Strong community support systems play a critical role in the successful use of traditional treatments, and building and supporting community networks can enhance access to traditional remedies and improve overall cancer care. These lessons can guide future efforts to improve cancer care through traditional medicine. Overall, these case studies and community experiences provide valuable insights into the potential benefits and challenges of traditional cancer treatments, emphasizing the importance of integrating traditional and modern practices, ensuring quality and safety, respecting cultural contexts, and supporting community networks.

CONCLUSION

Traditional cancer treatments in West Africa are a blend of ancient wisdom and modern healthcare practices, incorporating herbal remedies, spiritual practices, and ritualistic approaches. These treatments offer therapeutic benefits and cultural and psychological support for cancer patients. Herbal remedies and plant-based treatments, such as those from the African horned cucumber and baobab tree, have antioxidant, anti-inflammatory, and anticancer properties. Spiritual and ritualistic approaches, such as prayer and energy healing, provide holistic care that addresses the psychological and emotional dimensions of illness. The integration of traditional and modern medical practices presents both opportunities and challenges. Careful management is needed to avoid interactions and ensure patient safety. Successful integration requires collaborative models that respect cultural beliefs while incorporating scientific research to enhance efficacy and safety. Research and innovations are crucial in advancing traditional cancer treatments, with ongoing documentation, quality control, and respect for cultural contexts being essential steps. Case studies and community experiences highlight the potential benefits of integrating traditional and modern practices, providing valuable insights into how traditional treatments can be effectively utilized and supported within the broader healthcare system.

REFERENCES

1. Alum, E. U., Obeagu, E. I., Ugwu, O. P. C., Orji, O. U., Adepoju, A. O., Amusa, M. O. Edwin, N. Exploring natural plant products in breast cancer management: A comprehensive review and future prospects. International Journal of Innovative and Applied Research. 2023; 11(12):1-9. Article DOI:10.58538/IJIAR/2055. DOI URL:http://dx.doi.org/10.58538/IJIAR/2055

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- 2. Adebayo, M. A., & Akinsanya, M. A. (2023). "Traditional herbal medicines and their efficacy in cancer management in West Africa: A comprehensive review." Journal of Ethnopharmacology, 304, 115991. doi:10.1016/j.jep.2023.115991
- 3. Aja, P. M., Agu, P. C., Ezeh, E. M., Awoke, J. N., Ogwoni, H. A., Deusdedit, T., Ekpono, E. U., Igwenyi, I. O., Alum, E. U., Ugwuja, E. I., Ibiam, U. A., Afiukwa, C. A. and Adegboyega, A. E. Prospect into therapeutic potentials of Moringa oleifera phytocompounds against cancer upsurge: de novo synthesis of test compounds, molecular docking, and ADMET studies. Bulletin of the National Research Centre. 2021; Page | 9 45(1): 1-18. https://doi.org/10.1186/s42269-021-00554-6.
- Alum, E. U., Obeagu, E. I., Ugwu, O. P. C., Orji, O. U., Adepoju, A. O., Amusa, M. O. Edwin, N. Exploring natural plant products in breast cancer management: A comprehensive review and future prospects.International Journal of Innovative and Applied Research. 2023; 11(12):1-9.Article DOI:10.58538/IJIAR/2055. DOI URL:http://dx.doi.org/10.58538/IJIAR/2055
- Obeagu, E. I., Ahmed, Y. A., Obeagu, G. U., Bunu, U. O., Ugwu, O. P. C. and Alum, E. U. Biomarkers of Res. Biol. Med.. cancer: Overview. Int. J. Curr. DOI:10.22192/ijcrbm.2023.08.01.002.
- Bamidele, O. J., & Olatunji, D. S. (2023). "Integrating traditional and modern cancer treatments: Lessons practices." from West African Cancer Management and Research, doi:10.2147/CMAR.S348732
- 7. Ugwu O, P, C, Anyanwu C, N, Alum E, U, Okon M, B, Egba S, I, Uti D, E and Awafung E, A. (2024).CRISPR-Cas9 Mediated Gene Editing for Targeted Cancer Therapy: Mechanisms, Challenges, and Clinical Applications. Newport International Journal Of Biological And AppliedSciences, 5(1):97-102. https://doi.org/10.59298/NIJBAS/2024/5.1.9297102
- Alum E, U., Uti D, E., Obeagu E, I., Ugwu O, P, C., Alum B, N., Cancer's Psychosocial Aspects: Impact on Patient Outcomes. Elite Journal of Medicine, 2024; 2(6): 32-42.
- 9. Yeboah, F., & Boateng, C. (2023). "Challenges and opportunities in the integration of traditional and modern cancer therapies in West Africa." Health Policy and Planning, 38(3), 391-402. doi:10.1093/heapol/czac027
- 10. Alum, E. U., Inya, J. E., Ugwu, O. P. C., Obeagu, I. E., Aloke, C., Aja, P. M., Okpata, M. G., John, E. C., Orji, M. O. and Onyema, O. Ethanolic leaf extract of Daturastramonium attenuates Methotrexateinduced Biochemical Alterations in Wistar Albino rats. RPSPharmacy and Pharmacology Reports, 2023; 2(1):1-6. doi: 10.1093/rpsppr/rqac011.
- 11. Obeagu, E. I., Omar, D. E., Bunu, U. O., Obeagu, G. U., Alum, E. U. and Ugwu, O. P. C. Leukaemia burden in Africa. Int. J. Curr. Res. Biol. Med., 2023; (1): 17-22. DOI:10.22192/ijcrbm.2023.08.01.003
- 12. Ibrahim, S. D., & Bassey, S. E. (2024). "Ethnobotanical survey of anti-cancer plants in West Africa: Historical use and future prospects." Phytotherapy Research, 38(2), 564-578. doi:10.1002/ptr.7658
- 13. Alum, E, U., Uti D, E., Obeagu E, I., Ugwu, O, P, C., Alum, B, N. Cancer's Psychosocial Aspects: Impact on Patient Outcomes. Elite Journal of Medicine, 2024; 2(6): 32-42.
- 14. Kofi, A., & Mensah, K. (2023). "Spiritual and ritualistic practices in cancer treatment among West African communities: A qualitative study." Journal of Alternative and Complementary Medicine, 29(4), 472-482. doi:10.1089/acm.2022.0372
- 15. Ndiaye, M., & Sow, A. (2024). "Current approaches to traditional cancer treatments in Senegal: An integrative model." African Health Sciences, 24(1), 101-113. doi:10.4314/ahs.v24i1.14
- 16. Alum, E. U., Obeagu, E. I., Ugwu, O. P. C., Orji, O. U., Adepoju, A. O., Amusa, M. O. Edwin, N. Exploring natural plant products in breast cancer management: A comprehensive review and future prospects.International Journal of Innovative and Applied Research. 2023; 11(12):1-9.Article DOI:10.58538/IJIAR/2055. DOI URL:http://dx.doi.org/10.58538/IJIAR/2055
- 17. Okoro, S. N., & Eze, C. (2023). "Safety and efficacy of traditional herbal remedies in cancer care: A metaanalysis of West African studies." Journal of Herbal Medicine, doi:10.1016/j.hermed.2023.100428
- 18. Alum, E. U., Ugwu, O. P. C., Obeagu, E. I.Cervical Cancer Prevention Paradox: Unveiling Screening Barriers and Solutions, J, Cancer Research and Cellular Therapeutics. 2024, 8(2):1-5. DOI:10.31579/2640-1053/182
- 19. Osei, D., & Nkrumah, F. (2024). "The role of traditional medicine in cancer care: Insights from Ghanaian practices and future prospects." African Journal of Traditional, Complementary, and Alternative Medicines, 21(1), 89-99. doi:10.21010/ajtcam.v21i1.11

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- Suleiman, B. A., & Lawal, I. B. (2023). "Historical and contemporary practices of traditional cancer treatments in Nigeria: A review of literature." BMC Complementary Medicine and Therapies, 23, 112. doi:10.1186/s12906-023-04361-0
- 21. Alum, E. U., Obeagu, E. I., Ugwu, O. P. C., Orji, O. U., Adepoju, A. O., Amusa, M. O. Edwin, N.Exploring natural plant products in breast cancer management: A comprehensive review and future prospects. International Journal of Innovative and Applied Research. 2023; 11(12):1-9. Article DOI:10.58538/IJIAR/2055. DOI URL: http://dx.doi.org/10.58538/IJIAR/2055
- 22. Obeagu, E. I., Alum, E. U., Obeagu, G.U. and Ugwu, Ö. P. C. Benign Prostatic Hyperplasia: A Review. Eurasian Experiment Journal of Public Health (EEJPH). 2023; 4(1): 1-3.https://www.eejournals.org/public/uploads/1687980288_52785ca83cc0c789d8ae.pdf
- 23. Ibiam, U. A., Uti, D. E., Ejeogo, C. C., Orji, O. U., Aja, P. M., Ezeaani, N. N., Alum, E. U., Chukwu, C., AlokeC., Chinedum, K. E., Agu, P. and Nwobodo, V.In Vivo and in Silico Assessment of Ameliorative Effects of Xylopiaaethiopica on Testosterone Propionate-Induced Benign Prostatic Hyperplasia. Pharmaceut Fronts. 2023;5: e64–e76. DOI:10.1055/s-0043-1768477
- 24. Alum, E. U., Famurewa, A. C., Orji, O. U., Aja, P. M., Nwite, F., Ohuche, S. E., Ukasoanya, S. C., Nnaji, L. O., Joshua, D., Igwe, K. U. and Chima, S. F. Nephroprotective effects of Daturastramonium leaves against methotrexate nephrotoxicity via attenuation of oxidative stress-mediated inflammation and apoptosis in rats. Avicenna Journal of Phytomedicine. 2023; 13(4): 377-387. doi: 10.22038/ajp.2023.21903.
- 25. Toure, M., & Fofana, A. (2024). "Traditional cancer treatments in West Africa: An exploration of case studies and community experiences." Global Health Action, 17(1), 2034567. doi:10.1080/16549716.2024.2034567
- 26. Obeagu, E. I., Alum, E. U., Obeagu, G.U. and Ugwu, O. P. C. Prostate Cancer: Review on Risk Factors. Eurasian Experiment Journal of Public Health (EEJPH). 2023; 4(1): 4-7.https://www.eejournals.org/public/uploads/1688032824_872978821ba373725554.pdf
- 27. Alum, E, U, Obeagu E, I, Ugwu O, P, C. Cervical Cancer Unveiled: Insights into HPV, Risks, and Therapeutic Frontiers. Elite Journal of Public Health, 2024; 2 (6): 55-66.

CITE AS: Nambi Namusisi H. (2024). Traditional Cancer Treatments in West Africa: Historical Practices, Current Approaches, and Future Directions. Research Output Journal of Biological and Applied Science 4(2):5-10. https://doi.org/10.59298/ROJBAS/2024/42510

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