Development of a Frankincense-Dominant Compound System and Exploration of Multifaceted Applications

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ABSTRACT

This presentation highlights the innovative integration of Traditional Chinese Medicine (TCM) aromatherapy into chronic disease management, centered on Oman's unique medicinal resource—frankincense (Boswellia sacra). We explore the systematic development of its compound formulations and multidimensional therapeutic applications. Guided by the TCM theory of "meridian attribution based on fragrance and flavor properties, we synergize modern extraction techniques (e.g., supercritical CO_2 extraction) with advanced formulation technologies (nano-carriers, targeted delivery systems) to develop a synergistic frankincense-myrrh compound system. This approach effectively enhances the bioavailability and stability of bioactive components. Industrial-scale production of aromatherapy transdermal patches and aerosol formulations has demonstrated preliminary success in community-based health interventions, particularly in regulating emotional states and improving sleep quality among hypertensive patients. Furthermore, this speech proposes a China-Oman collaborative initiative to advance the sustainable utilization of frankincense resources and facilitate the joint establishment of international quality standards. By integrating the TCM philosophy of "preventive treatment of disease" with Omani traditional therapies, we aim to build an interdisciplinary cooperation network. This framework seeks to address global health challenges in aging societies through culturally informed, evidence-based innovations.

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