

Chapter 6

Traditional Medicine: Exploring Their Potential in Overcoming Multi-Drug Resistance

Pavitra Solanki

 <https://orcid.org/0000-0001-9199-9566>
Jamia Hamdard, India

Yasmin Sultana

Jamia Hamdard, India

Satyavir Singh

Bundelkhand University, India

ABSTRACT

Everybody is at risk of being infected by drug-resistant microscopic organisms. Managing with sickness has never been less demanding within the history of our species. At the current rate of antimicrobial resistance (AMR) in microbes, specialists foresee that battling infections tuberculosis, HIV, and intestinal sickness will become more complicated. Antimicrobial resistance is rendering numerous life-saving drugs useless. Antibiotic-resistant microbes, known as “superbugs,” are getting to be more various and more harmful, thanks to the proceeding abuse of anti-microbials. Natural medication offers an alternative to these progressively ineffectual drugs. According to the World Health Organization (WHO), traditional medicine is a holistic term enclosing diverse health practices. Concurring to a report by the College of Maryland Therapeutic Center, turmeric’s volatile oil serves as a common anti-microbial.

DOI: 10.4018/978-1-7998-0307-2.ch006

INTRODUCTION

Multi drug resistance (MDR) is the oversensitivity or resistance of microorganisms such as (bacteria, viruses, fungi and parasites) to the antimicrobial drugs which results in ineffective treatment and spreading of infections. In bacteria it occurs due to the over expression of bacterial genes and accumulation of multiple genes in the bacterial cells which results in multidrug and single drug resistance simultaneously (Nikaido, 2009). MDR with increased morbidity and mortality due to the infecting agents such as bacteria, virus, fungi and parasite is rendered to as “super bugs”. Worldwide multidrug resistance is a serious threat to public health in life threatening disease such as tuberculosis, pneumonia, HIV, malaria, yeast infections and other diseases. At whatever point we feel a small beneath the climate, we discover out what’s off-base with us and take whatever is endorsed to create our side effects for all intents and purposes vanished. It appears nearly cursory until you think almost the infection-causing bacteria’s capacity to adjust. The normal determination can be a perilous amusement. Within the case of disease-causing microscopic organisms, the last mentioned is an unfavorable result of our abuse of anti-microbials. Most major wellbeing specialists fear that drug-resistant microbes, or “superbugs,” maybe our following worldwide wellbeing emergency. It’s been utilized to treat all sorts of skin and respiratory diseases for thousands of a long time. Lab reports appeared that Guduchi diminished or killed *E. coli* and upper respiratory disease, concurring to the Indian Journal of Pharmacology 2003. A 2006 study by the College of Madras appeared Triphala restrained development of common bacterial segregates from HIV patients. Risorine having piperine as normal bio-enhancer is utilized in a settled measurements composition with Rifampicin and Isoniazid for the administration of tuberculosis. This diminished the dosage of rifampicin and moved forward its bioavailability. The multidrug resistance can be classified as essential resistance, auxiliary and clinical resistance. Essential resistance is when the medicate of intrigued doesn’t stand up to by the specific have micro-organism (Tanwar et al, 2014; Vranakis et al, 2013). Auxiliary resistance happens for the most part after the introduction of the drugs to the living being and classified as: Natural resistance: When a single species of all micro-organisms appeared heartlessness to certain common to begin with line drugs. Broad Resistance: It is the capacity of living beings to stand up to the inhibitory impacts of one or two antimicrobial drugs which are most viable (Lee et al, 2013; Marks et al, 2014). Clinical Resistance: Restraint of contaminating living being by a concentration of an antimicrobial specialist due to helpful disappointment or return of contaminations inside an life form (Tanwar et al, 2014). Earlier studies have shown that for the pain coupled with boils *Datura stramonium* has been used as a medicinal plant, and also has been used in the treatment of gout, abscesses, rheumatism, and asthma. From the previous reports, it is clear that natural remedies can be considered

10 more pages are available in the full version of this document, which may be purchased using the "Add to Cart" button on the publisher's webpage: www.igi-global.com/chapter/traditional-medicine/284601

Related Content

Review on Knowledge-Centric Healthcare Data Analysis Case Using Deep Neural Network for Medical Data Warehousing Application

Nilamadhab Mishra and Swagat Kumar Samantaray (2023). *Digital Twins and Healthcare: Trends, Techniques, and Challenges* (pp. 193-214).

www.irma-international.org/chapter/review-on-knowledge-centric-healthcare-data-analysis-case-using-deep-neural-network-for-medical-data-warehousing-application/317209

Research on multi-view clustering algorithm on epileptic EEG signal

(2022). *International Journal of Health Systems and Translational Medicine* (pp. 0-0).

www.irma-international.org/article//282682

Neural Control of Muscle

Parveen Bawa and Kelvin E. Jones (2014). *Applications, Challenges, and Advancements in Electromyography Signal Processing* (pp. 1-27).

www.irma-international.org/chapter/neural-control-of-muscle/110753

Exploring Organizational Behavior and Workplace Diversity in Healthcare

Amalisha S. Sabie-Aridi, Darrell Norman Burrell and Kevin Richardson (2022).

International Journal of Health Systems and Translational Medicine (pp. 1-13).

www.irma-international.org/article/exploring-organizational-behavior-and-workplace-diversity-in-healthcare/306970

Application of Kirlian Captures and Statistical Analysis of Human Bioelectricity and Energy of Different Organs: Observations and Graphical Notations

Rohit Rastogi, Mamta Saxena, Devendra K. Chaturvedi, Mayank Gupta, Neha Gupta, Deepanshu Rustagi, Sunny Yadav and Pranav Sharma (2021). *International Journal of Health Systems and Translational Medicine* (pp. 10-32).

www.irma-international.org/article/application-of-kirlian-captures-and-statistical-analysis-of-human-bioelectricity-and-energy-of-different-organs/277367