



SCIENTIFIC PROGRESS IN THE FIELD OF THERAPEUTICAL THERMALISM FOR “HYDROTHERMAL DEVELOPING COUNTRIES”: A INTEGRATED ANALYTICAL APPROACH PROPOSAL (IAAP)

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Abstract

Introduction

Therapeutic thermalism has reached a wide application in the world since Roman age. Important spas centres were born in Europe in order to offer the best therapeutic service to patients and promote the typical local resources. However, there are countries in which the thermalism field hasn't reach high levels in research and economy. The aim of our work is to purpose a general model for promoting new innovation approach in therapeutic thermalism for countries not yet competitive in this area.

Methods

This proposal is based on the participatory methodology and on the integrated analytical approach (IAA). It is possible correlate chemical/mineralogical-structural-biological-surface free energy aspects of peloids and spring waters on each samples and in the same time.

Results

The “hydrothermal developing country” (HDC) term introduced here derives from the definition of “developing country” and identifies a “hydrothermal resources country having a standard of hydrothermal industry well below that possible with hydrothermal research aid; a country that is not yet highly represented in terms of therapeutic thermalism”. The HDC can be realized by a specific Therapeutic Thermalism Proposal (TTP) focused on skin as biological element for the evaluation of the efficacy of pelotherapy and balneotherapy in HDC. The TTP aim to evaluate the biological maturation process of peloids and the therapeutic properties of active natural substances (ANS) generating during the maturation process. The TTP consider ANS potential active natural ingredients (ANI) for the development of local cosmetic and formulation industry. The TTP aim to give the scientific basis of local therapeutic thermalism trough the interaction between local academic realities and SME with the active participation and interactions of national and local governmental institutions. Direct beneficiaries of TTP are involved in the development enhancing human resources in therapeutic thermalism within the frame of government policies.