



Radon as a Medicine, Therapeutic Effectiveness, Biological Mechanism and Comparative Risk Assessment

By RADIZ Radon-Dokumentations- und Informationszentrum Schlemma e. V. (Ed.)

Verlag Dr. Kovac, Hamburg, 2014. Softcover. Condition: neu. 1. Auflage. HIPPOKRATES - Schriftenreihe Medizinische Forschungsergebnisse, Band 93 112 pages. Proofs of the therapeutic efficiency of balneological radon applications administered to patients suffering from rheumatic diseases, investigations into the biological action mechanism associated with the alpha particles emitted by radon and its radioactive daughter products, and the comparative risk assessment of radon treatment and medicinal pain therapy have been the research projects whose results are summarized in this book. Controlled clinical studies, if possible performed as prospective, randomized and placebo-controlled double blind studies, have given evidence that the therapeutic effects of balneological radon applications - long-lasting pain reduction and reduced consumption of medicines compared with controls - are significantly persisting over many post-treatment months. The molecular and cellular mechanism of action underlying these long-lasting therapeutic effects has been identified as the down-regulation of cellular immune responses, initiated by cellular apoptosis sequential to low alpha particle doses and by the subsequent release of anti-inflammatory cytokines. The unwanted side-effects of non-steroidal anti-rheumatic drug treatments have to be compared with the absence of side effects from the balneological radon applications which merely involve radiation doses well below the mean value and the fluctuation width...



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