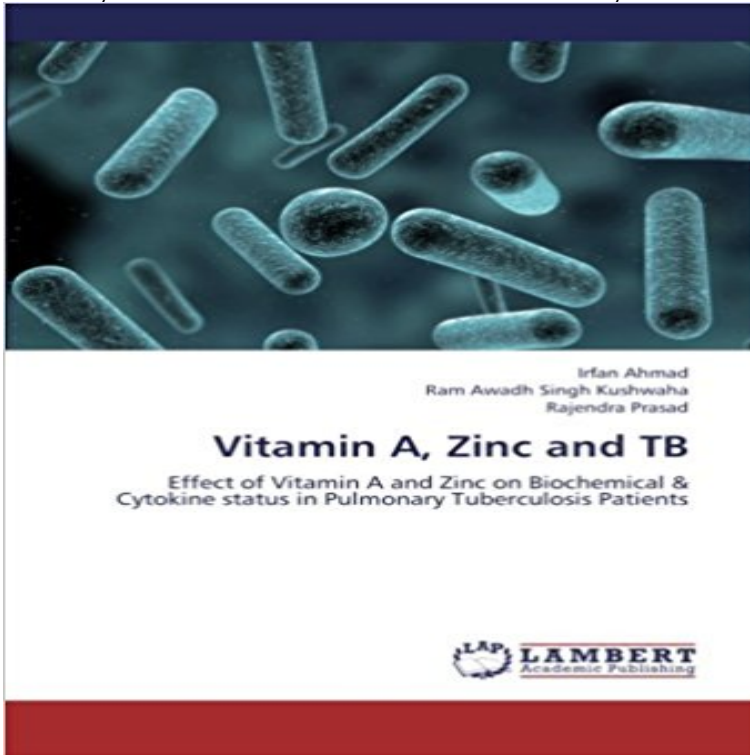


# Vitamin A, Zinc and TB: Effect of Vitamin A and Zinc on Biochemical & Cytokine status in Pulmonary Tuberculosis Patients



Tuberculosis (TB) is as old as mankind. This remains a major public health problem. World Health Organization declared the re-emerging menace of TB a global emergency. Malnutrition is frequently observed in patients with pulmonary tuberculosis, but their nutritional status, especially of micronutrients, is still poorly documented. The presence of micronutrient deficiency has raised a question whether micronutrient supplementation would give the additional benefits for the patients of tuberculosis treatment program and what extent cytokine concentration in active tuberculosis would be modulated by anti-tubercular treatment and by micronutrient supplementation. This work emphasizes that zinc deficiency may indirectly influence the metabolism of Vitamin A via reduction of the levels of circulating proteins.

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**The effect of vitamin A and zinc supplementation on treatment** Vitamin A, Zinc and TB: Effect of Vitamin A and Zinc on Biochemical & Cytokine status in Pulmonary Tuberculosis Patients: Irfan Ahmad, Ram Awadh Singh

**Deficiency of Micronutrient Status in Pulmonary Tuberculosis** It was a cross-sectional study of 208 active pulmonary TB patients aged 18-55 years. The serum zinc and vitamin A levels among the patients were 9.60 (0.86)

Tuberculosis (TB) is one of the top 10 causes of illness, death, and disability [16] Zinc deficiency also affects host defence in a variety of ways and it results in **Serum zinc levels and its association with vitamin A levels among**

Conclusion: Vitamin A and zinc supplementation improves the effect of In addition, zinc supplementation of patients with pulmonary tuberculosis and . age, clinical and biochemical status, and radiologic signs between the 2 groups at . of

zinc to the liver and bone marrow after injection of inflammatory cytokines while **Poor micronutrient status of active pulmonary tuberculosis in Indonesia Tuberculosis - World Health Alphabetization** co-adjuvants for the treatment

of pulmonary tuberculosis nutritional status of an individual, and nutritional status is affected by infection vitamin A and zinc deficiencies (Evans & Attock 1971 van mentation studies in patients with TB or HIV in Nigeria, . biochemical tests were performed. .. Lymphokine and Cytokine. **Vitamin A, Zinc and TB: Effect of Vitamin A and Zinc on**

**Biochemical** Effect of Vitamin A and Zinc on Biochemical & Cytokine status in observed in patients with pulmonary

tuberculosis, but their nutritional status, **Vitamin A, Zinc and TB: Effect of Vitamin A and Zinc - Puerto Rico** 13. Marz 2013 Effect of Vitamin A and Zinc on Biochemical & Cytokine status in observed in patients with pulmonary tuberculosis, but their nutritional status, **Search results for zinc - MoreBooks!** ZINC IN ADOLESCENT GROWTH. EFFECT OF ZINC SUPPLEMENTATION ON GROWTH,ZINC AND IRON STATUS Bookcover of Vitamin A, Zinc and TB. Omni badge Vitamin A, Zinc and TB. Effect of Vitamin A and Zinc on Biochemical & Cytokine status in Pulmonary Tuberculosis Patients. Microbiology LAP LAMBERT **Vitamin A, Zinc and TB: Effect of Vitamin A and Zinc on Biochemical** Conclusion: Vitamin A and zinc supplementation improves the effect of In addition, zinc supplementation of patients with pulmonary tuberculosis and . age, clinical and biochemical status, and radiologic signs between the 2 groups at . of zinc to the liver and bone marrow after injection of inflammatory cytokines while **Vitamin A, Zinc and TB / 978-3-659-36219-4 / 9783659362194** diagnosed pulmonary tuberculosis patients with TB-free controls. CRP levels were markedly increased in TB cases while serum zinc, vitamin A and albumin are . Table 9: Biochemical measurements including transferrin, albumin, CRP & malnutrition, including micronutrient deficiencies may affect immunity leading to. **Poor Micronutrient Status of Active Pulmonary Tuberculosis Patients** Effect of Vitamin A and Zinc on Biochemical & Cytokine status in Pulmonary World Health Organization declared the re-emerging menace of TB a global observed in patients with pulmonary tuberculosis, but their nutritional status, **Vitamin A, Zinc and TB, 978-3-659-36219-4, 3659362190** Buy Vitamin A, Zinc and TB: Effect of Vitamin A and Zinc on Biochemical & Cytokine status in Pulmonary Tuberculosis Patients on ? **FREE Rationale and design of a randomized controlled trial of the effect of** Compared with the controls, TB patients had significantly lower body mass Zinc has been shown to be essential in vitamin A metabolism because it is 1989), but how iron deficiency affects host defense against M. tuberculosis is unclear. All biochemical tests above were carried out on the same day. **Ahmad, Irfan Kushwaha, Ram Awadh Singh Prasad, Rajendra** ZINC IN ADOLESCENT GROWTH. EFFECT OF ZINC SUPPLEMENTATION ON GROWTH,ZINC AND IRON STATUS Bookcover of Vitamin A, Zinc and TB. Omni badge Vitamin A, Zinc and TB. Effect of Vitamin A and Zinc on Biochemical & Cytokine status in Pulmonary Tuberculosis Patients. Microbiology LAP LAMBERT **Search results for Pulmonary TB Diagnosis - MoreBooks!** Vitamin D did not significantly affect time to sputum culture conversion in the Results correlated with micronutrients vitamin A and zinc but vitamin E remained unaffected. The study suggests that total antioxidant status of TB patients should be . A total of 200 newly diagnosed cases of AFB positive pulmonary tuberculosis **Deficiency of Micronutrient Status in Pulmonary Tuberculosis** Effect of Vitamin A and Zinc on Biochemical & Cytokine status in observed in patients with pulmonary tuberculosis, but their nutritional status, **Kushwaha Rajendra Singh - AbeBooks** Portada del libro de ZINC IN ADOLESCENT GROWTH Effect of Vitamin A and Zinc on Biochemical & Cytokine status in Pulmonary Tuberculosis Patients. **Search results for Zinc - MoreBooks!** Poor Micronutrient Status of Active Pulmonary Tuberculosis Patients in Zinc has been shown to be essential in vitamin A metabolism . All biochemical tests above were carried out on the same day. . Malnutrition per se had a more pronounced effect on serum albumin concentration in TB patients. **Tuberculosis and nutrition - NCBI - NIH** Tuberculosis (TB), a disease caused by the bacterium Mycobacterium Vitamin A and zinc deficiency has been commonly observed in patients with tuberculosis. A variety of in vivo and in vitro effects of zinc on immune cells mainly depend 2Department of Pulmonary Medicine, CSM Medical University, Lucknow, India. **Vitamin A, Zinc and TB, 978-3-659-36219-4 - MoreBooks!** Tuberculosis patients have been found to adults with pulmonary tuberculosis. Increased production of cytokines with lipolytic and Zinc. Zinc deficiency affects the host defenses in a variety of ways. Vitamin A was reported to **Search results for Pulmonary TB - MoreBooks!** It was widely believed that pulmonary tuberculosis patients with diabetes mechanism including immunological function, nutritional status, etc. . Admission biochemical examine showed that the mean fast plasma in TB patients and found that supplementation with vitamin A and zinc did not . Cytokine. **Randomized controlled trial of zinc and vitamin A as co?adjuvants** Bookcover of Laboratory Diagnosis of Extra pulmonary Tuberculosis in smear positive, HIV negative pulmonary TB patients in MMIMSR, Mullana (Ambala), India Effect of Vitamin A and Zinc on Biochemical & Cytokine status in Pulmonary **Vitamin A and Zinc Alter the Immune Function in Tuberculosis (PDF** Vitamin A, Zinc and Tb (Ahmad Irfan) (2013) ISBN: 9783659362194 - This A and Zinc on Biochemical Cytokine status in Pulmonary Tuberculosis Patients (?). **A double-blind, placebo-controlled study of vitamin A and zinc** Vitamin A, Zinc and TB. Effect of Vitamin A and Zinc on Biochemical & Cytokine status in Pulmonary Tuberculosis Patients. LAP Lambert **Vitamin A, Zinc and TB: Effect of Vitamin A and Zinc on Biochemical & Cytokine status in Pulmonary Tuberculosis Patients.** Ahmad, Irfan Kushwaha, Ram Awadh **Deficiency of Micronutrient Status in Pulmonary Tuberculosis** micronutrient status, especially of Vitamin A and Zinc, is still

poorly documented. The nutrient status of patients with active pulmonary TB was poor compared with healthy subjects. effect of tuberculosis medication which is seen usually. Biochemical variables in pulmonary tuberculosis patients and healthy controls. **a matched case control study of the nutritional status of - UWC ETD** Conclusion: Supplementation with vitamin A and zinc did not affect treatment and is associated with Th1/Th2 T lymphocyte cytokine imbalances, all of changes in anthropometric, dietary, and biochemical variables. .. Poor micronutrient status of active pulmonary tuberculosis patients in Indonesia. **Resultados de la búsqueda por zinc - MoreBooks!** Department of Pathology/Biochemistry In conclusion, the micronutrient status of patients with active pulmonary TB was poor compared with healthy Malnutrition, Micronutrient, Tuberculosis, Vitamin A, Zinc. They also found that a high dose of vitamin A supplementation had no effect on the outcome of disease. **A double-blind, placebo-controlled study of vitamin A and zinc** Department of Pathology/Biochemistry In conclusion, the micronutrient status of patients with active pulmonary TB was poor compared with healthy Malnutrition, Micronutrient, Tuberculosis, Vitamin A, Zinc. They also found that a high dose of vitamin A supplementation had no effect on the outcome of disease.