

MEETING ABSTRACT

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Possible correlations between the psychological state and excessive innate immunity responses in ulcerative colitis

Ilias Vlachos^{1*}, Maria Coccossis², Maria Tsopanomichalou³, Christos Christoidoulou⁴, George Papadimitriou², Efstathios Patsouris¹, Calypso Barbatis³, Polyxeni Nicolopoulou-Stamati¹

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Background

Inflammatory bowel diseases (IBD), including ulcerative colitis (UC) and Crohn's disease (CD), belong to the autoimmune disorders in the sense that an excessive response of the immune system(both innate and acquired) towards commensal microbial flora of the intestinal mucosa is involved in their pathogenesis. The progress of IBD is unknown, characterized by periods of exacerbation and quiescence. Depression and anxiety seem to coincide with relapse of IBD and further research is needed for the clarification of this correlation.

Aim

To further investigate the relationship between the psychological state of UCpatients and the gravity of their biopsy during relapse.

Materials and methods

29 UC patients, hospitalized in two general hospitals for the investigation of a possible relapse of their disease were examined. Methods: Four self- report inventories (Hospital Anxiety and Depression Scale-HADS, Zung Depression Scale, State Trait Anxiety Inventory Form1 and Form 2/STAI1/STAI2) were administered to the patients and the scores were correlated with the severity of parameters of their corresponding biopsies.

Results

Positive correlations were observed between the degree of anxiety and depression in the questionnaires and the activation of innate immunity (polymorphonuclear leucocytes and macrophages) in the biopsies of UC patients

Conclusions

Our findings suggest correlations between the psychological state of UC patients and the intensity of their innate immune response perpetuating inflammation.

Author details

¹Pathology Department, Medical School Athens University, Athens, Greece. ²First Psychiatry Department, Medical School Athens University, Athens, Greece. ³Pathology Department, Hellenic Red Cross Hospital, Athens, Greece. ⁴Second Psychiatry Department, Medical School Athens University, Athens, Greece.

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¹Pathology Department, Medical School Athens University, Athens, Greece