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## Can we predict the postoperative infections?

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Many patients develop infections following operations. Decreased immune competence has been demonstrated in acute neurological conditions. A strong cytokine mediated anti-inflammatory response was observed in stroke patients at infection, although infection due to the decreased pro-inflammatory mediators can be expected as well. To investigate this question the following experiment was performed. Twenty two urinary bladder cancer patients, with radical cystectomy and lymphadenectomy were studied. Blood samples were taken on day 0 (before) and day 1, 3, 6, 9 and 14 after operation as well as on day 30, 60, 90 and 270 during follow up.TNF alpha, soluble TNF alpha receptor I and IL-6 levels in sera were determined by HS ELISA and/or ELISA. Plasma ACTH and cortisol values were measured by RIA kits. Results: From 22 patients 8 deep wound and urine infections were found in 14 days and 6 urine and wound infections in 30 days after surgery, all survived. All patients were bacterially contaminated, as wound samples taken at the end of operation demonstrated. On the day 0 the circulating TNF alpha values were lower in infected patients. TNF started to increase from day 3 till day 9 never reaching values of uneventful healing group. Soluble TNF receptor I, IL-6, ACTH, and cortisol concentrations did not demonstrate any difference on day 0 however from day 1 started to increase transiently, reaching higher levels in septic patients. An low pro-inflammatory response is a key facilitating factor for the development of infection. Thus measuring serum TNF alpha levels before and after operations can predict the outcome.

## Biography

T. Mózes has completed his Ph.D at the age of 39 years from Semmelweis University, Budapest, Hungary and postdoctoral studies from Erasmus University Rotterdam, The Netherlands. He has completed his DSc. at the age of 49 years from Hungarian Academy of Science, Budapest, Hungary. He is the director of research in Dept. of Aerospace. In his life he specialized in surgery and trauma surgery and beside in his clinical job continously was involved in clinical research. He has published more than 29 papers in reputed journals.

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