EVALUATION OF NUTRITIONAL HABITS IN STONE FORMING HYPERCALCIURIC PATIENTS

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Calcic Nephrolithiasis (NC) is a common clinical disorder that involves 1 to 5% of the population, it has a considerable hereditary component and may be linked to several metabolic disorders. Its multifactorial pathogenesis share both genetic and nutritional factors. An excessive excretion of calcium (hypercalciuria) is the major physiopathological mechanism of NC and is frequently observed in osteoporotic patients, as result of either drug administration (calcium, vitamin D) or high bone turnover. A common pathogenetic mechanism of all such metabolic disorders may involve chronically maintained metabolic eciclosis, which determines bone loss and renal loss of calcium, due to both the buffer action carried out to the skeleton against acid radicals and as well as an increase in osteoclast-mediated borie everyion. A recent study has shown that, in the case of NC, a valcium deficient diet will no provide the hypothetical beneficial effects that a normocalcic, hypopro eig. hyposodic diet will (Forghi, let al., 2002). Moreover, it has been observed that a calcium nutritional deficiency, tige bor with an excessive protein intake, can determine a mineral mobilisation from bone thus causing all os copenic or osteoporotic status. To better evaluate the nutrition il habits of hypercalciu ic pations, a food frequency questionnaire was distributed to 54 patients, 10e 43 (±15.7 y (range 15 81.7) recruited from a clinical survey. The results of the study show that he subjects calcium in take it less than 80% of the recommended daily intake and the protein pt. ke reaches up to 15% of heir daily caloric intake. In our sample Na intake is 1656.7±407.9 mg/die for v omen and 1615±313.5 mg/die for men, the acid ossalic values are 185.7±112.8 mg/die for women and 268.6±2 30.4 mc/dic for men. Those values are higher than those recommended in an adequately balanced diet in terms of normal calcium content, low amounts of sodium chloride and ossalic acid and low animal protein content (a 2500 kcal diet contain 1150 mg/die Na and 200 mg/die ossalic acid).