A) COMMENTS ON PUBLISHED ARTICLES

Comment on “Acute renal failure after intake of mushrooms”

Dear Editor,

After carefully reading the article by Rojas et al (Nefrología 2008;28[5]:559-560), we would like to make a series of observations which we believe should be taken into account. The article describes the case of a child who, after consuming wild mushrooms, had symptoms of vomiting without the presence of diarrhoea, followed by anuric renal failure, anaemia and mild hepatic cytolysis, and needed haemodialysis for 8 days with satisfactory progress.

While discussing the case, the article mentions hepatotoxic mushrooms carrying amatoxins as the cause of the illness. However, in our opinion, the absence of diarrhoea, present in 100% of such poisoning, together with the mild hepatic cytolysis and the normal prothrombin time, render the involvement of a hepatotoxic mushroom such as Amanita verna highly unlikely.

The erroneous use of the references is surprising. Five of the six articles mention poisoning from mushrooms of the Cortinarius genus, the symptoms of which greatly differ from those described here. The digestive symptoms indicate a latency of 3 days in appearance and renal failure of 4 to 15 days, leading to chronic kidney disease (CKD) in 34% of the cases without hepatic affection in all the cases shown.

However, the case described by Rojas et al is of particular interest because it corresponded to many of the data attributed to an accelerated nephrototoxic syndrome caused by mushrooms, which is described as being caused in the USA by the Amanita smithiana, in Japan by the Amanita pseudoporphyria and in France, Italy and Spain by the Amanita proxima. The latter, that is, Amanita proxima (Dumée, 1916), is a mushroom with a creamy white colour similar to Amanita ponderosa or Amanita ovoidea, with which it is usually confused. It has an orange volva that is characteristically different from the rest of the white-coloured fungi, and it is predominantly found in the Mediterranean area. De Haro et al, with the greatest amount of cases (53 patients), report that between 2 and 48 hours following post-ingestion all patients showed signs of gastroenteritis, with a high number of vomiting (85%) and a lesser amount of diarrhoea (26%). Leray et al, in a smaller amount of cases, report no diarrhoea. Acute renal failure occurred between days one and four following ingestion, always accompanied by mild cytolysis that was quickly reversible with a prevalence of LDH and GPT/ALT, the latter never surpassing 15 times the maximum normal limit. Renal affection is histopathologically characterised by acute tubulo-interstitial nephritis with an always-favourable progress. The toxin responsible has yet to be isolated; however, suggestions have been made of non-protein amino acids, thermo-stable and similar to those found in other nephrotoxic fungi, for example, allenic norleucine isolated in the Amanita smithiana.


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B) BRIEF PAPERS ABOUT RESEARCH AND CLINICAL EXPERIENCES

Continuous extrarenal treatment without anticoagulation therapy

Dear Editor,

Critically ill patients often develop acute renal failure and, on many occasions, need continuous extrarenal treatment. One of the main disadvantages of the technique is the coagulation of the filters, which reduces the effectiveness of the therapy, increases costs and prolongs the patient’s recovery. The continuous nature of the technique, therefore,