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The effects of supplementation of vitamin C and folic acid on growth performance, hematological parameters and non-immune response of barbel sturgeon (*Acipenser nudiventris*)

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This study was conducted to investigate the effects of dietary vitamin C and folic acid on growth performance, hematological parameters and non-immune response of *Acipenser nudiventris*. Six practical diets were formulated as follow; control: without supplementation, T1; 200 mg ascorbic acid (AA), T2:3.5 mg folic acid (FA), T3: 200 mg AA+1.5 mg FA, T4: 200 mg AA+3.5 mg FA and T5:200 mg AA+5.5 FA equivalent kg⁻¹ diet. Each diet was fed to triplicate groups with initial body weight of 32 g in 785-L tanks. Fish fed the basal diet had significantly lower weight gain, total length, specific growth rate (SGR) and condition factor (CF) than those fed the diets supplemented with AA and FA. FCR were significantly lower in fish fed T5 than other groups. White blood cell (WBC), red blood cell (RBC), haematocrit (Ht), haemoglobin (Hb), lymphocyte and MCV were significant. Lysozyme, total immunoglobulin (Ig) and IgM concentrations had significant differences between treatments. These results indicated that dietary vitamin C and folic acid (200 mg AA+3.5 mg AF) had significant influence on hematological and immunological parameters in juvenile barbel sturgeon.

Biography

Maryam Akhoudian has completed her MSc at Tarbiat Modares University of Tehran and PhD at Khorramshahr University of Marine Science and Technology, Iran. She is an Assistant Professor in Marine Biology at University of Mazandaran, Faculty of Marine Science. She has published 15 papers in reputed journals and has been serving as Reviewer of some journals.

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