

## #1961 - pulmonary blood pressure status in hemodialysis patients and its Association with nutrition status

Authors and Affiliations Dr.malihe yarmohammadi . Mahdie sadat Sakhdari.Dr.Rahime Eskandarian.Dr.majid Mirmohammad khani .farhad malek  
1Department of Internal Medicine, Kousar Hospital, Semnan University of Medical Sciences, Semnan, Iran

Corresponding Author and email Maliheh Yarmohamadi malihehyarmohamadi@yahoo.com

**Body** **Introduction:** The prevalence of pulmonary hypertension (PH) is reported between 17 and 56% in hemodialysis (HD) patients. Pathogenesis of PH in HD patients is still unclear. Malnutrition associating impaired pulmonary function tests in HD patients previously reported. Present study aimed to investigate an association between PH and nutrition HD patients.

**Materials & Methods:** Total 80 HD patients were included. Pulmonary artery pressure (PAP) and ejection fraction (EF) percentage was determined by echocardiography after a midweek HD session. Arm circumference, triceps fat mass, body mass index was determined. Some lab test such as: Transferrin, Serum albumin, cholesterol, triglyceride, hemoglobin were studied. Patients in questionnaire give information about method of receiving protein.

**Results:** Pulmonary hypertension (PAP >35 mmHg) was found in 32 (40%) of 80 patients studied. . Age ( $p = 0.500$ ), sex ( $p = 0.132$ ), Arm circumference ( $p = 0.713$ ), time of dialysis to year ( $p = 0.115$ ), BMI ( $p = 0.219$ ) were not different between patients with PH and without PH. Transferin ( $p = 0.854$ ), triglyceride ( $p = 0.773$ ), and total cholesterol ( $p = 0.252$ ) levels were not significantly difference in patients with PH than with no PH. Evaluation relationship between serum albumin and pulmonary hypertension need more cases.

With pulmonary hypertension and hemoglobin ( $p=0.038$ ) is association as well as prevalence of pulmonary hypertension in low hemoglobin level decrease to 60% . Logistic regression analysis revealed that increased hemoglobin cause pulmonary hypertension.

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**Conclusion:** With pulmonary hypertension and hemoglobin is association as well as prevalence of pulmonary hypertension in low hemoglobin level decrease to 60% . Logistic regression analysis revealed that increased hemoglobin cause pulmonary hypertension. So suggested to do more research.

**Keywords:** Hemodialysis, End Stage Renal Failure, Malnutrition, Pulmonary Hypertension, Nutritional Status

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