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Comparison of dental and periodontal problems in liver and renal failure patients with normal population

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Transplantation is the best treatment for organ failure. However, the patients who have to undergo transplantation should wait for a long time, and this might contribute to developing some complications. Moreover, after excessive search in medical journals, we found that previous studies mostly have focused on the oral cavity in the transplant patients, in chronic renal failure and in liver diseases. However, few studies evaluate dental health status and radiographic evaluation in liver failure or renal failure patients. This motivated us to conduct the present study to compare the renal failure and liver failure patients with normal people with regard to the findings of oral cavity and oral plain radiography. This is a descriptive study conducted on the patients with chronic renal or liver failure were registered for the transplantation on the waiting list, in Nemazee hospital transplant center. Oral examinations and oral plain graphy was requested. Having consulted the statistic professor, we assigned the participants to three groups: choronic renal failure CRF (n: 50), liver disease (n: 50), and normal group (n: 50). The software SPSS was used for data analysis. Findings: The three groups participated in the present study were the normal group (n: 50), CRF group (n: 50), and liver failure (n: 50) group. Gingival recession was observed in 16, 23, and 33 patients in Normal, CRF group, and liver failure group respectively (Pvalue<0.05). We also noticed bone loss in 13, 23, and 29 patients in normal group, CRF, liver failure group (Pvalue: 0.002). The mean number for missing teeth needed extraction and root canal therapy, the teeth for which root canal therapy was performed the teeth were filled before the study, and the teeth in need of filling for the liver failure group was more than that in the normal group. (The Pvalue was <0.05), however, the mean for CRF group was significantly lower than that for the normal group (Pvalue<0.05). Compared with the normal group the mean number for missing teeth in CRD group was significantly higher. Gingival recession and bone loss in liver failure and chronic kidney disease group were significantly more than that in the normal group. The prevalence of caries was lower in CRF patients compared with the normal group; in contrast, missing teeth, filled teeth. Dental filling and root canal therapy were lower in the liver failure patients than that in the normal group. Missing teeth was more prevalent in chronic kidney disease than normal group.

Gingival Recession	Grade Group	0	1	2	3
	Normal	34	8	8	0
Bone Loss	Grade Group	0	1	2	3
	Normal	37	10	3	0
	CRD	27	15	8	0
	Liver Failure	21	14	15	0

Recent Publications

1. Sagheb MM, Sharifian M, Ahmadi S, Moini M, Rais-Jalali GA, Behzadi S, Roozbeh J, Jalaian H, Nikeghbalian S, Bahador A, Salahi H, Salehipoor M, Kazemi K and Malek-Hosseini SA (2011). Comparison of immediate renal dysfunction in split and partial liver transplantation versus full size liver transplantation in Shiraz transplant centre. Ann Transplant; 16(2):36-42.

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2. Jamali R, Khonsari M, Merat S, Khoshnia M, Jafari E, Bahram Kalhori A, Abolghasemi H, Amini S, Maghsoudlu M, Deyhim MR, Rezvan H and Pourshams A(2008). Persistent alanine aminotransferase elevation among the general Iranian population: prevalence and causes World J Gastroenterol 14(18):2867-71.
3. Sheehy EC, Roberts GJ, Beighton D and O'Brien G (2000). Oral health in children undergoing liver transplantation. Int J Paediatr Dent 10(2):109-19.
4. de la Rosa-Garcia E, Mondragon-Padilla A, Irigoyen-Camacho ME and Bustamante-Ramirez MA (2005). Oral lesions in a group of kidney transplant patients. Med Oral Patol Oral Cir Bucal 10(3):196-204.
5. Grubbs V, Gregorich SE, Perez-Stable EJ and Hsu CY (2009) Health literacy and access to kidney transplantation Clin J Am Soc Nephrol 4(1):195-200.

Biography

Mohammad Reza Salahi was born on December 26th 1984 in SHIRAZ (IRAN). He completed his graduation from Shiraz Medical University in Shiraz (IRAN) IN 2012. He got fellowship in implant surgery in 2016. He is working on some articles about laser in Endodontics.

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