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**A ten-year retrospective study for a single center in Iran of 32 kidney transplant patients with early graft loss to determine the cause of transplant rejection**

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A rare complication of kidney transplantation is (Early Graft loss) EGL. Several factors playing a role in the occurrence of EGL in kidney transplant patients need to be identified and limited. This Ten-Year retrospective study from a single center in Iran of 32 kidney transplant patients with EGL aimed to determine the cause and risk factors for transplant rejection. In the current descriptive-analytical study, 605 kidney transplant patients receiving kidneys during the last 10 years were included. The diagnosis of EGL was based on basic clinical cases such as rapid increase in serum creatinine. The studied factors included age, gender, blood group, and RH of both donors and recipients as well as the kinship between a donor and a recipient (relative and non-relative), kidney side of donors and the recipients, primary kidney disease, the presence of underlying disease in the recipient, dialysis duration, the year of transplantation, the survival time of transplant, patient survival time, complications (surgery and others). In this study, 32 kidney transplant patients (5.28%) encountered EGL, 53.1% of whom were male. Besides, the average age of the patients was 41.12 years. The duration of kidney function after transplantation was 5.56 days. The transplanted kidneys in 34.4% of patients were functional between 72 hours and one week after transplantation. In 31.3% of the patients, EGL was observed due to tissue rejection, in 21.8% due to vascular thrombosis and hyper acute rejection, while in 41% of patients, nephrectomy occurred. 43.75% of patients died, because of heart attack. The finding from this study supported the finding from previous studied that EGL was associated with kidney donor incompatibility and complications associated with transplant surgery, including bleeding and thrombosis.

**Recent publications**

1. Thongprayoon, Charat, Panupong Hansrivijit, Napat Leeaphorn, Prakrati Acharya, Aldo Torres-Ortiz, Wisit Kaewput, Karthik Kovvuru, Swetha R. Kanduri, Tarun Bathini, and Wisit Cheungpasitporn. "Recent advances and clinical outcomes of kidney transplantation." *Journal of Clinical Medicine* 9, no. 4 (2020): 1193.
2. Xin, Zhaodan, Lijuan Wu, Juan Zhou, Jie Zhuang, Wu Peng, Turun Song, Tao Lin, Xiaojun Lu, and Binwu Ying. "Analysis of Factors Influencing Kidney Function of Recipients After Renal Transplantation in Southwestern China: A Retrospective Study." *Frontiers in Medicine* 7 (2020): 519582.
3. de Kok, Michèle J., Alexander F. Schaapherder, Jacobus W. Mensink, Aiko P. de Vries, Marlies E. Reinders, Cynthia Konijn, Frederike J. Bemelman et al. "A nationwide evaluation of deceased donor kidney transplantation indicates detrimental consequences of early graft loss." *Kidney International* 97, no. 6 (2020): 1243-1252.

**Biography**

Mahdi Hemmati-Ghavshough is an active medical Intern student. He is experienced in Urology research and computer sciences such as Python, Linux, R, etc. He has expertise in bioinformatics. He has always sought new sciences and wants to challenge them to learn them. He is interested in robotic surgery, specifically in the urology field.

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