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Laparoscopic hand-assisted donor heminephrectomy in living donor with horseshoe kidney

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Report of our clinical case of laparoscopic hand-assisted donor heminephrectomy in living donor with horseshoe kidney (HSK) has a good innovation in donor kidney retrieval technique and particularly in case of congenital anomalies.

Kidney transplantation is a "gold standard" of treatment of chronic kidney disease in terminal stage. Nowadays there is a strong deficit of donor organs. Due to undeveloped cadaveric kidney transplantation we always try to accept donors with different anatomic particularities. In our practice we perform traditionally laparoscopic hand-assisted donor nephrectomy either in case of single artery and vein or multiple vessels.

This case is a report of kidney transplantation from 65 –years old woman for her 39-years old son with end-stage renal disease (ESRD). Technical challenge was due to that donor had a HSK with parenchymal isthmus, with 4 arteries on right half and 2 arteries on the left with retrocaval position of the latters.

We performed literature review for similar cases and found out that usually open laparotomy was performed in this patients. So we decided not to change the familiar for us technique in this case also. Donor underwent laparoscopic hand-assisted donor heminephrectomy with subsequent successful implantation of graft and immediate function.

Biography

Islam Madadov has the experience of kidney transplant surgeon for the last 7 years. His main goal is to improve surgical technique of kidney transplantation. The main areas of interest except surgical technique is transplant immunology.

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