

Abstract Type : Oral Presentation
Abstract Submission No. : F-004242

Angioplasty or sacrifice is better in multiple renal artery grafts: a CT image analysis study

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Recently, more detailed organ evaluation using CT volume analysis has been developed. In living donor renal transplantation, preoperative 3D CT volume analysis based on contrast-enhanced thin-slice CT images is used to estimate total renal weight and quantify renal cortical volume, which contributes to securing space in the transplant bed and provides useful information for the evaluation of divided renal function and post-transplant renal function. In addition, in patients with multiple renal arteries, the reflux area of each artery can now be quantified. In the present study, 3D CT volumetric analysis was performed on 188 patients who underwent living donor renal transplantation at the Japanese Red Cross Aichi Medical Center Nagoya Daini Hospital from January 2020 to November 2021. Of these, 160 patients were analyzed with actual thin slice data, 36 (22.5%) had grafts with multiple renal arteries, and 18 (11.3%) were sacrificed. 3D CT Volumetric Analysis Predicted by Renal Cortical Volume on Initial Renal Function of Recipients After Living Donor Kidney Transplantation The impact of multiple renal artery grafts sacrificed was examined.