

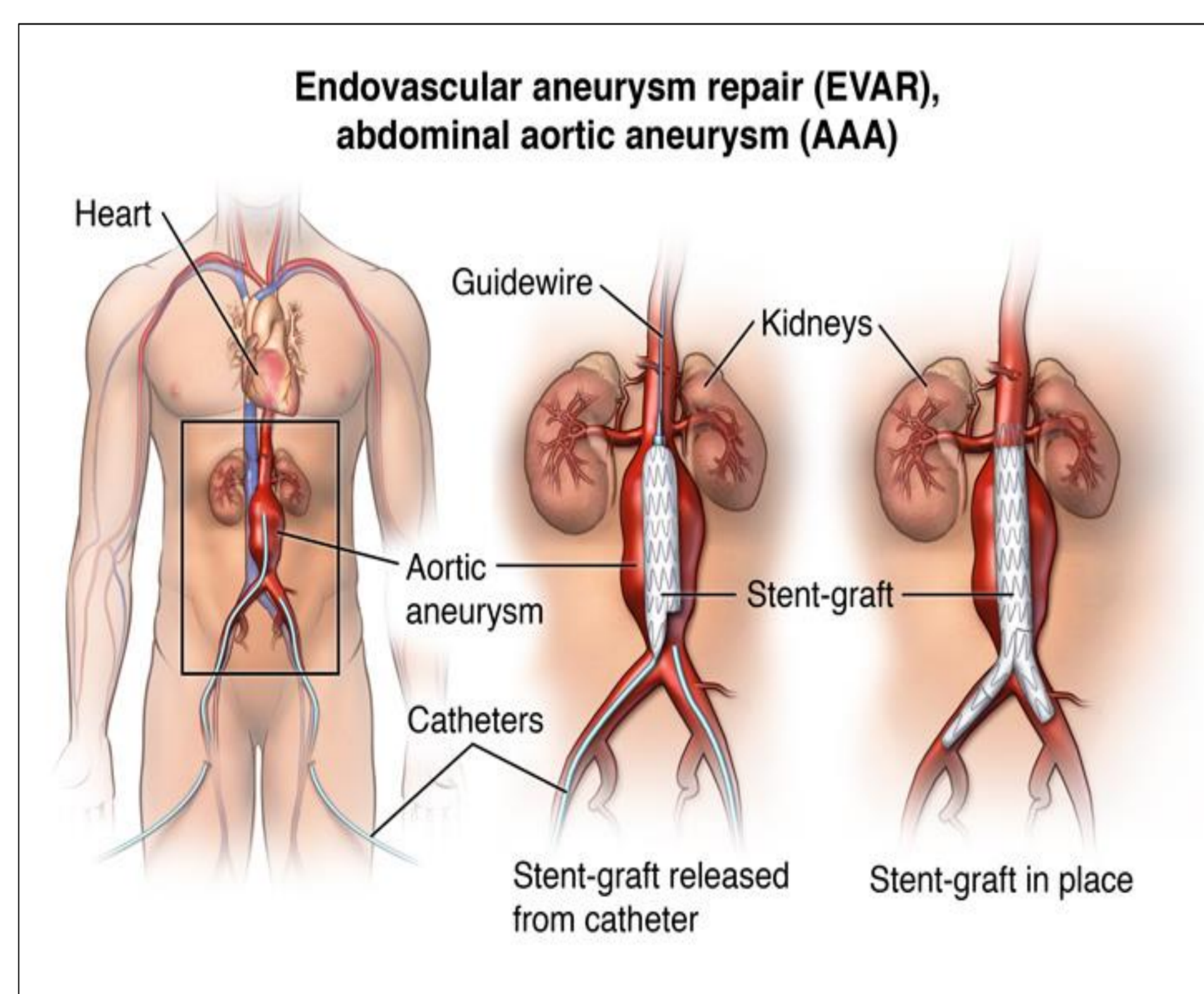
# RENAL FUNCTION IN EARLY POSTOPERATIVE PERIOD REGARDING TO SURGICAL TECHNIQUES FOR ABDOMINAL AORTIC ANEURYSM REPAIR

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## INTRODUCTION

- Acute kidney injury is a common complication of abdominal aortic aneurysm surgical treatment.
- Endovascular procedure has become more often used surgical technique in past a few years.



## OBJECTIVES

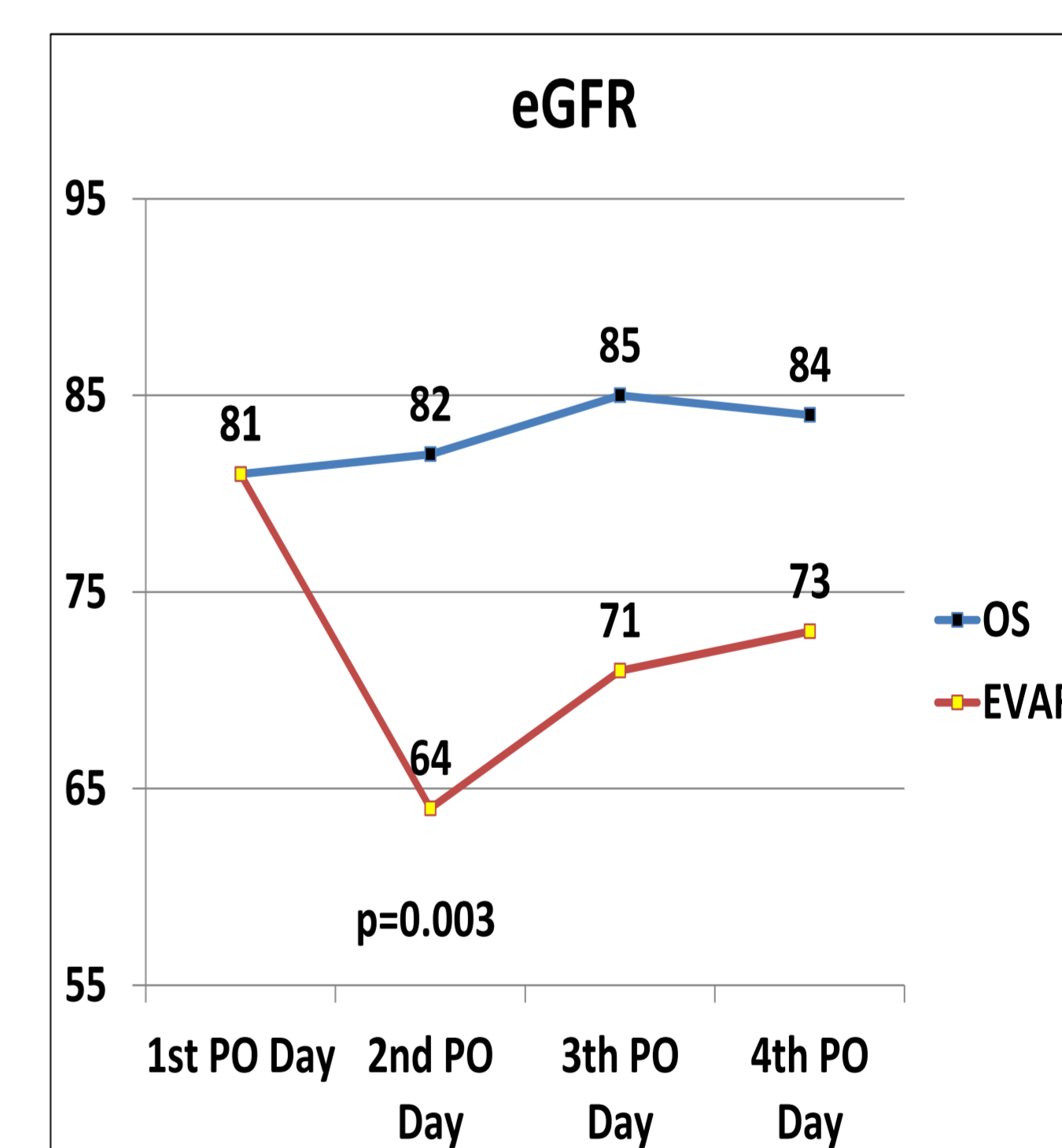
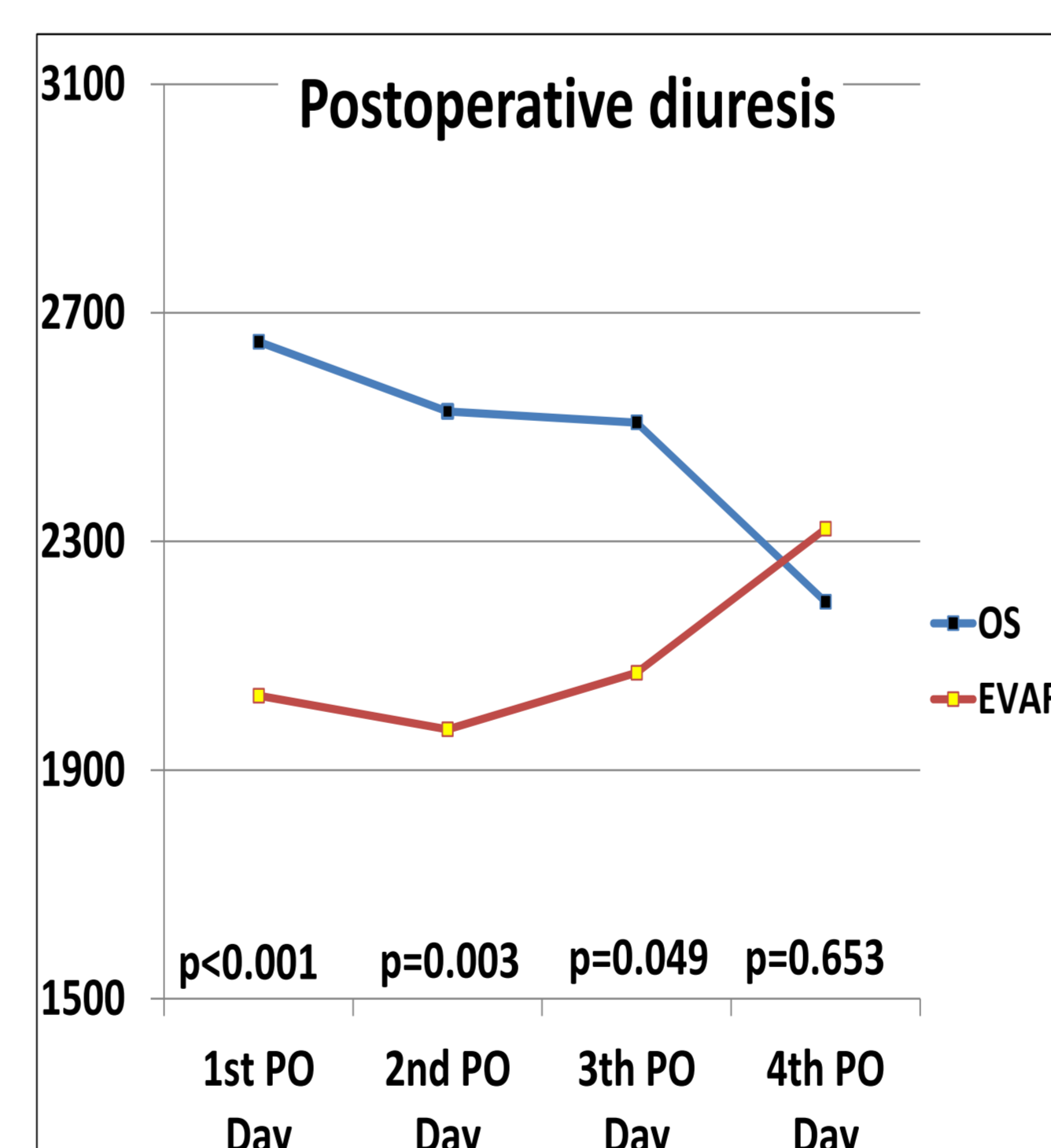
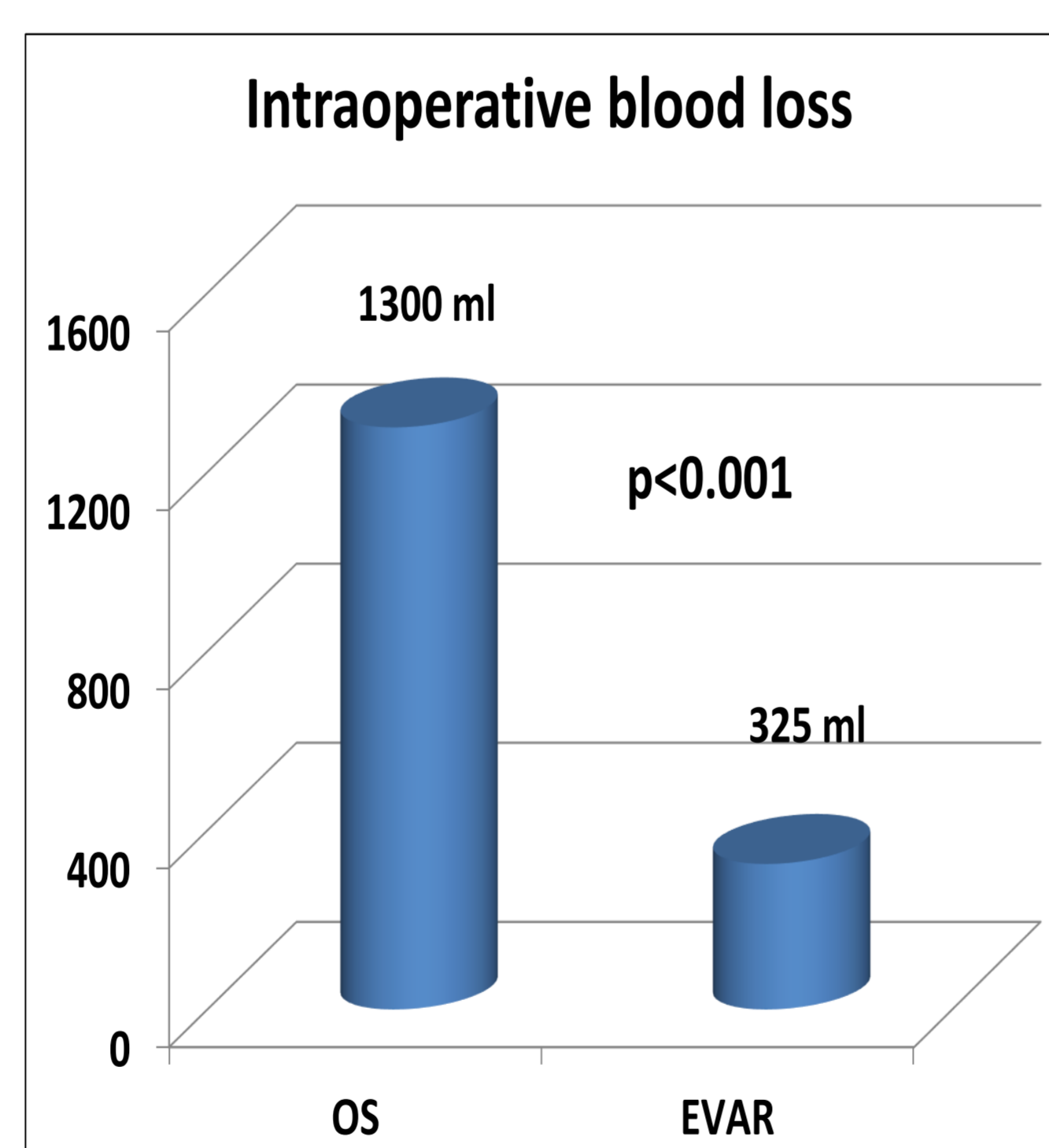
- Aim of study was to analyze the influence of surgical techniques for abdominal aortic aneurysm repair on renal function in early postoperative period.

## METHODS

- This prospective study included 227 patients who needed elective treatment of abdominal aortic aneurysm.
- Open surgery (OS) technique was performed in 146 patients and 81 patients were treated by endovascular aortic repair (EVAR).
- There was no difference on gender distribution between these two groups and men were dominant (89.7% and 93.8%, respectively).
- Clinical and laboratory parameters were obtained during the early postoperative period.

## RESULTS

	OS, n=146	EVAR, n=81	p
Age	67±6.8	71±7.0	<0.001
BMI, kg/m <sup>2</sup>	26.3±3.7	26.6±3.7	0.535
EF, %	52.6±10.4	44.4±16.1	0.001
Urea, mmol/L	6.9 (3.7)	7.1 (3.0)	0.874
Creatinine, μmol/l	94 (38)	90 (34)	0.323
eGFR, ml/min	78.1±32.4	77.8±30.7	0.940
Hgb, g/l	134±16.5	134±21.0	0.987
Dimension of AAA, mm	55 (17)	60 (14)	0.036
Male, n (%)	131 (89.7%)	76 (93.8%)	0.296
Smoking, n (%)	110 (75.3%)	49 (60.5%)	0.019
DM, n (%)	37 (25.3%)	16 (19.8%)	0.340
HTA, n (%)	139 (95.2%)	70 (86.4%)	0.190
Myocardial infarction, n (%)	92 (63.0%)	46 (56.8%)	0.325
CMP, n (%)	61 (41.8%)	54 (66.7%)	<0.001
Haemodialysis, n (%)	6 (4.4%)	1 (1.2%)	0.426



## CONCLUSIONS

- There is influence of surgical techniques on renal function in early postoperative period for abdominal aortic aneurysm repair.
- EVAR brings higher risk for decreasing renal function compared to OS technique

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