The Role of Interventional Radiology in Solid Organ Transplant

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Interventional radiology

- Minimally invasive
- Imaging guided
- Diagnostic
- Therapeutic
- Procedures

IR in organ transplantation

Pre transplant

Post transplant

Early or late

Pre transplant

Recipient

Optimisation

Reduce risk of post op complications

Post transplant



Complications



Early <30 days



Late>30 days

Pre transplant

Liver transplant

Portal vein recanalization – trans splenic

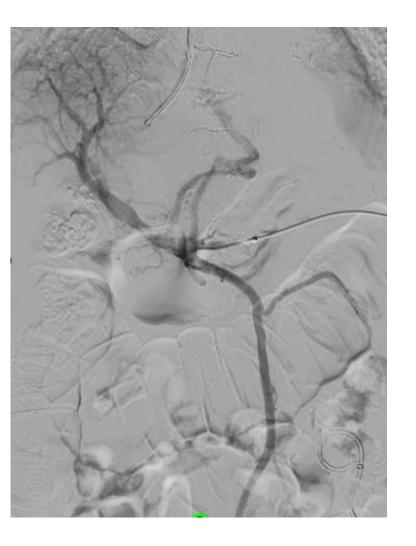
Transjugular Intrahepatic Porto Systemic shunt (TIPS)

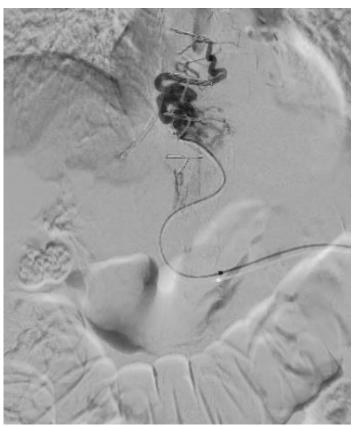
Pre kidney transplant

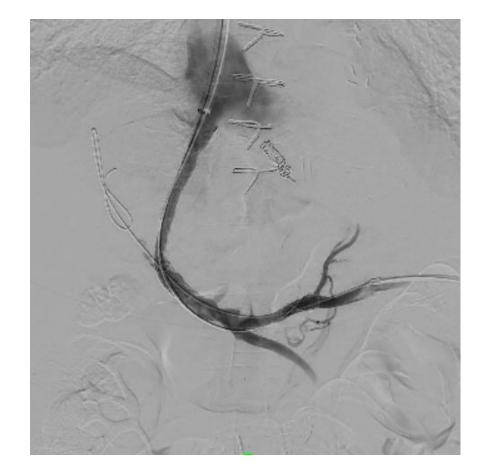
Malignant hypertension

Bilateral renal artery embolization

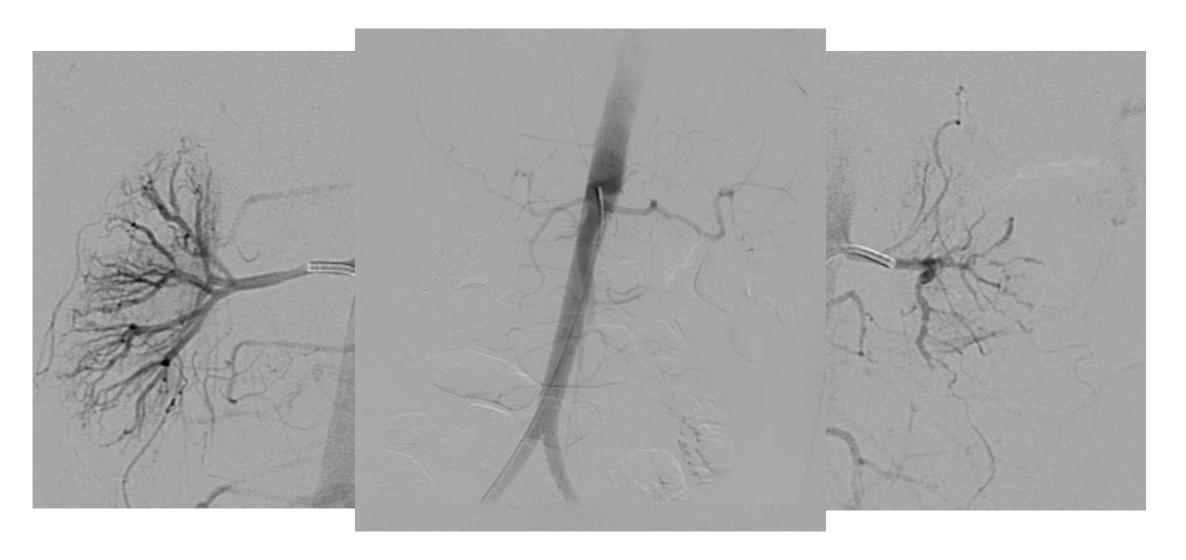
Medical bilateral nephrectomy







Medical bilateral nephrectomy







Post transplant Liver

Complications

Rejection – biopsy

Biliary

Arterial

Portal vein

Hepatic venous outflow

Leak

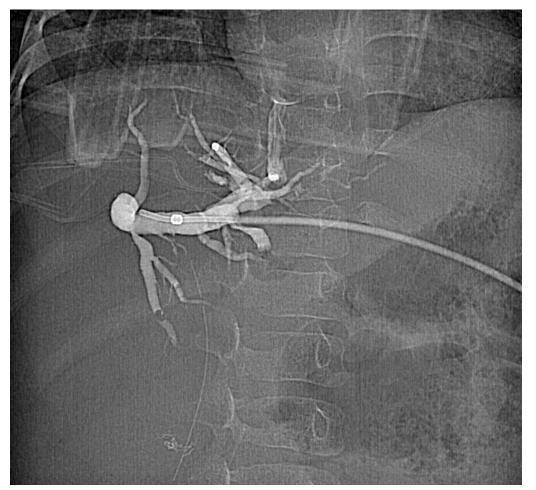
Biliary

Strictures

Retained

Bile leak

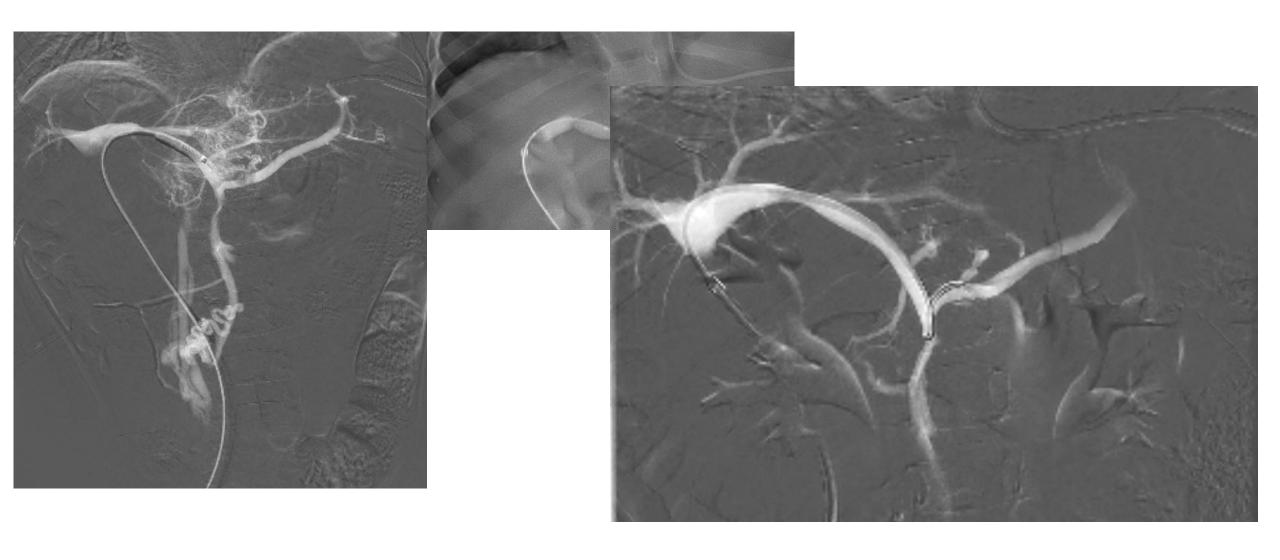




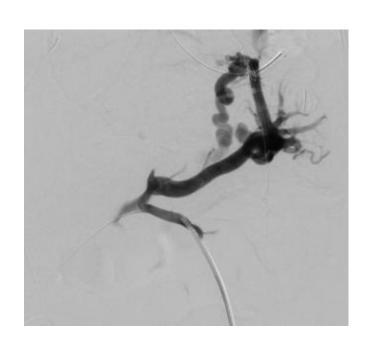


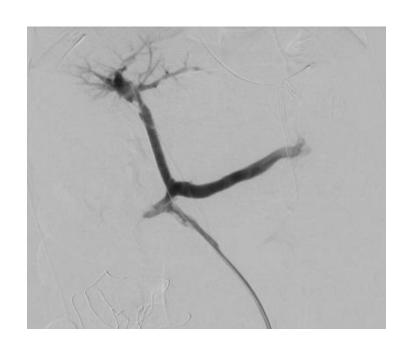


Portal vein stenosis



Early portal vein thrombosis





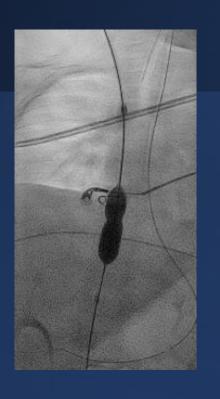


Late portal vein thrombosis

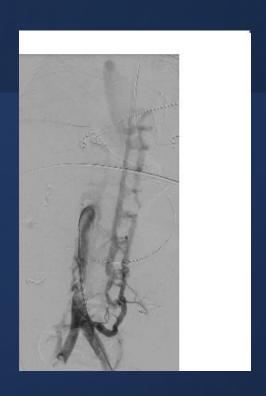




Venous outflow obstruction









Kidney

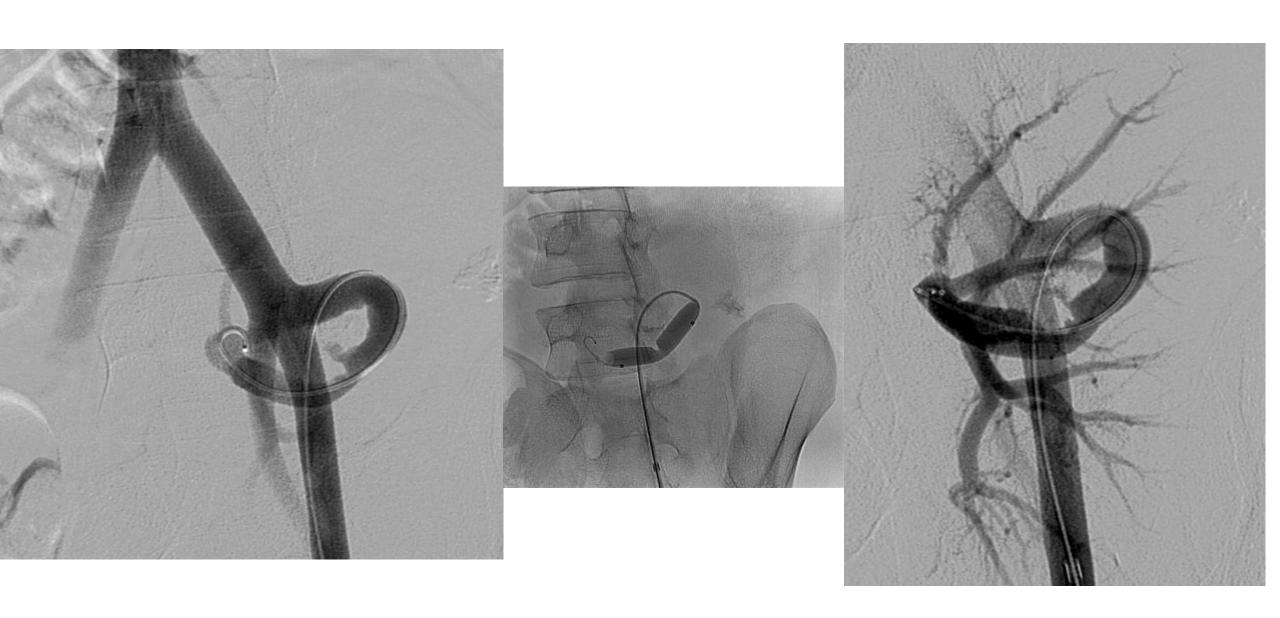
Post transplant

Ureteric – leak or obstruction

Renal artery stenosis







Summary

IR plays a role in solid organ transplantation

Pretransplant

Posttransplant

Low morbidity

Thank you

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