Background and Aims An 18-year-old female, presented to labour ward, G2P0 36+6 weeks pregnant, with history of cardiaic transplant for idiopathic dilated cardiomyopathy diagnosed at age of 13 and transplanted at age 13, with dual chamber pacemaker, with good exercise tolerance. Due to worsening acute kidney injury, secondary to a combination of Tacrolimus and obstructive nephrosis of the right kidney, urgent category 2 caesarean section delivery was needed to avoid sepsis.

Methods Prior to theatre, pacemaker was checked, preoperative ECG showed a pacemaker dependant rhythm and USG of renal tract showed a moderate hydronephrosis of right kidney. Preoperative potassium was raised, treated with a dextrose-insulin infusion. Irradiated blood was crossmatched. Two wide bore cannulas and arterial line were inserted. Patient was consented and a spinal anaesthetic was administered. Intraoperative cell salvage was used due to anaemia in pregnancy. Postoperatively, patient was managed in labour ward HDU with strict fluid balance. Kidney functions gradually improved and Tacrolimus levels was monitored.

Results Preconception counselling is paramount, pregnancy should be delayed at least 1 year after a heart transplant. Higher incidence of pre-eclampsia, eclampsia and gestational diabetes have been reported. Monitoring of immunosuppressant levels is vital.

Conclusions Pregnancy after heart transplantation brings many new considerations to the anaesthetist especially as this is a rare occurrence! this case report shows the importance of a multidisciplinary team approach whilst keeping the patient at the centre of combined decision making. Patients require a tailored anaesthetic plan and careful perioperative preparation to ensure safe patient care. Punnoose, L.R. et al. (2020) ‘Pregnancy outcomes in heart transplant recipients,’ The Journal of Heart and Lung Transplantation, 39(S), pp. 473–480.

#35890 REFRACTORY ELECTRICAL CARDIAC STORM DURING A TWIN PREGNANCY DELIVERY: A CHALLENGING CLINICAL CASE

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Background and Aims Electrical storm (ES) is a state of cardiac electrical instability characterized by multiple episodes of ventricular arrhythmias. It is a very rare condition during pregnancy, especially without a history of heart disease. We present a clinical case of a woman with a twin pregnancy who developed a very challenging and refractory ES.

Methods A 28-year-old woman with a bicorionic/biamniotic twin pregnancy and a history of anxiety presented to our centre at 32 weeks of gestation due to dysuria and diarrhoea, which started one day after she began taking quetiapine. She was admitted for evaluation and started on nifedipine for tocolysis. After one hour, the patient developed polymorphic ventricular tachycardia (VT) with significant hemodynamic instability. Due to the inefficacy of pharmacological and synchronized cardioversion, an emergent cesarean section was performed. The twins were born without complications. However, she maintained the VT and was admitted to the intensive care unit. After six days of numerous attempts at synchronized cardioversion and pharmacological therapy, a successful ablation of the apical focus of the left ventricle was performed, resulting in a return to sinus rhythm.

Results This case occurred in a pregnant woman with no previous heart disease. Ablation was not immediately available as a specialized team was required in our department. The only way to achieve hemodynamic improvement was through the use of isoproterenol. All the other drugs and synchronized cardioversion had no significant effect. She recovered after a few weeks with no significant morbidity.

Conclusions A structured, team-based management approach is paramount for these clinical cases.