

AXIOSTAT – 100% CHITOSAN HAEMOSTATIC DRESSING ON ECMO FEMORAL CANNULATION WITH SEVERE BLEEDING

Center

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Patient details	1 year 10 months , female
Patient history	Neonatal Respiratory Distress Syndrome (RDS) is seen in the patient as she was a premature baby and lungs were not developed. ECMO was procedure through femoral cannulation was conducted but there was continuous frivolous oozing that lasted 3 days. Axiostat was used to control this situation and haemostasis was achieved within minutes.
Procedure	ECMO Femoral cannulation
Heparin dosage	50 IU / Kg / Hour
Sheath size	12F
Axiostat variant	V55
ACT	158
Average time taken to achieve haemostasis	3 mins



Uncontrolled oozing before procedure



Application of axiostat at the insertion site of cannulae



Bleeding controlled post application of axiostat



Application of secondary dressing post achieving haemostasis

Result

Patient outcome with Axiostat	Ease of application	Ease of removal	Adherence to wound	Conformability of dressing	Patient dressing
Excellent					
Good					
Fair					
Poor					

Discussion

- For patients on ECMO it is very important to avoid any complications that may occur from being on the machine. Some of the more serious problems that may occur when a patient is on ECMO is Bleeding. Due to the blood thinning medication that patients need while on ECMO, there is re-bleeding from the insertion sites of cannulae
- In this study, the paediatric patient had a history of continuous oozing at the ECMO cannulation site for 3 days.
- Despite the heparin dosage the time taken to control bleeding was significantly shorter with Axiostat than with the conventional method of applying manual compression with cotton gauze ,which usually takes more than 30 mins to achieve haemostasis in such cases.
- No re-bleeding from puncture site was observed for additional 2-3 hours after removing the manual compression. Similarly, the puncture sites showed no re bleeding, skin irritation, swelling, vascular complication, allergy with Axiostat. Secondary dressing was applied post bleeding control.
- Further there was no bleeding complications after the surgery.
- Overall, Axiostat was also found to be an excellent hemostatic dressing in patients undergoing ECMO Femoral cannulation