

AXIOSTAT – 100% CHITOSAN HAEMOSTATIC DRESSING ON RADIAL INTERVENTIONAL CARDIOLOGY PROCEDURE FOR PATIENTS WITH HIGH HEPARIN DOSAGE

Center

- Sparsh super-speciality hospital, Bangalore-india

Patient details	50 years , Female	68 years , Male	50 years , male	67 years , Male
Patient history	No Diabetes & No Hypertension	Diabetes & Hypertension	Diabetes & Hypertension	Diabetes & Hypertension
Procedure	AVF	PTCA	PTCA	PTCA
Heparin dosage	10000 IU	10000 IU	12000 IU	12000 IU
Sheath Size	7F	6F	6F	6F
Loading Dose	NIL	Clopidogrel 600 mg	Clopidogrel 600 mg	Clopidogrel 600 mg
Axiostat Variant	V35	V35	V35	V35
ACT	NIL	300	298	NIL
Time of application	1:20 PM	2:00 PM	12:00 PM	2:30 PM

No rebleeding or other complications observed when peripheral area was checked after 5 mins & 15 mins.



Application of axiostat at the puncture site



Applying uniform pressure



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

- High heparin dosage makes it difficult for doctors and technicians to achieve haemostasis post surgical procedure, making it non-compliant for patients and doctors. This may further lead to serious complications and even death due to haemorrhage.
- In this study the average heparin dosage is 11000 IU. Despite the high 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 after the removal of Axiostat.
- Further there was no incidence of device related bleeding complications during 5 days after the surgery.
- Overall, Axiostat was also found to be an excellent hemostatic dressing in patients undergoing radial interventional cardiology procedures.