

## AXIOSTAT – 100% CHITOSAN HAEMOSTATIC DRESSING ON BLEEDING DUE TO DEEP LACERATION WOUND

### Center

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| Patient details                           | 73 years , Male                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Patient history                           | Patient encountered side impact vehicular collision.<br>Deep cuts on the left lateral and posterior head.<br>There was profuse bleeding making it difficult for the doctors to proceed with any secondary procedures owing to the severity of the situation. 3 Axiostats were packed into the wounds to control bleeding and haemostasis was achieved |
| Axiostat variant used                     | M85                                                                                                                                                                                                                                                                                                                                                   |
| No of Axiostats used                      | 3                                                                                                                                                                                                                                                                                                                                                     |
| Average time taken to achieve haemostasis | 1 min                                                                                                                                                                                                                                                                                                                                                 |



Bleeding from the deep cuts on the left head



Application of axiostat to control bleeding

### Result

| Patient outcome with Axiostat | Ease of application | Ease of removal | Adherence to wound | Conformability of dressing |
|-------------------------------|---------------------|-----------------|--------------------|----------------------------|
| <b>Excellent</b>              |                     |                 |                    |                            |
| <b>Good</b>                   |                     |                 |                    |                            |
| <b>Fair</b>                   |                     |                 |                    |                            |
| <b>Poor</b>                   |                     |                 |                    |                            |

### Discussion

- Trauma in India is a significant issue, with alarming rates of road accidents contributing to at least 13 deaths an hour. Fatalities due to road accidents are expected to increase by 150% by 2020. A major cause of death in trauma injuries is uncontrolled haemorrhage. Using the haemostatic dressing as the first line of treatment.
- Axiostat offers good haemostasis in pre hospital scenario. This study shows Axiostat enables early haemostasis which prevents much blood loss and the wound becomes very clean on removal of dressing for later wound suturing when compared to cotton gauze
- In this study, the haemostasis time with Axiostat was 1 min. The hemostasis time was significantly shorter than the conventional method of applying manual compression with cotton gauze ,which usually requires around 20 min to achieve haemostasis.
- Further there was no incidence of Axiostat related bleeding complications post 5 days after the secondary procedure.
- Overall, Axiostat was also found to be an excellent hemostatic dressing in patients undergoing any intraoperative procedures