Case Study Report

Open Abdomen closure using ABRA® Abdominal

**Age:** 39  **Sex:** Male  | **ACell Product(s) Used:** ABRA® Abdominal Wall Closure System.

**Background:** Patient sustained sharp trauma to the neck with injury to the carotid artery. Vigorous and sustained resuscitation caused Abdominal Compartment Syndrome, which then resulted in bowel ischemia. Emergency laparotomy with colectomy ensued with resulting open abdominal defect.

**Outcome:** Full fascial closure on day 17 leaving skin to close via secondary intention.

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Initial presentation of the open abdomen.

Initial presentation of the open abdomen, reduction in abdominal defect is seen.

Further reduction in abdominal defect is observed.

17 days post-application of ABRA with regular adjustment of elastomers.

Loss of Domain

Day 0

Day 3

Day 11

Day 17

Day 17

17 days post-application of ABRA with regular adjustment of elastomers.

NOTE: Because of existing risk of infection, this clinician chose to leave skin open and the resulting wound was subsequently managed with Negative Pressure Wound Therapy for a period of time and left to close by secondary intention.