

# ABRA ABDOMINAL CASE STUDY, SEPT 2015 – APR, 2016

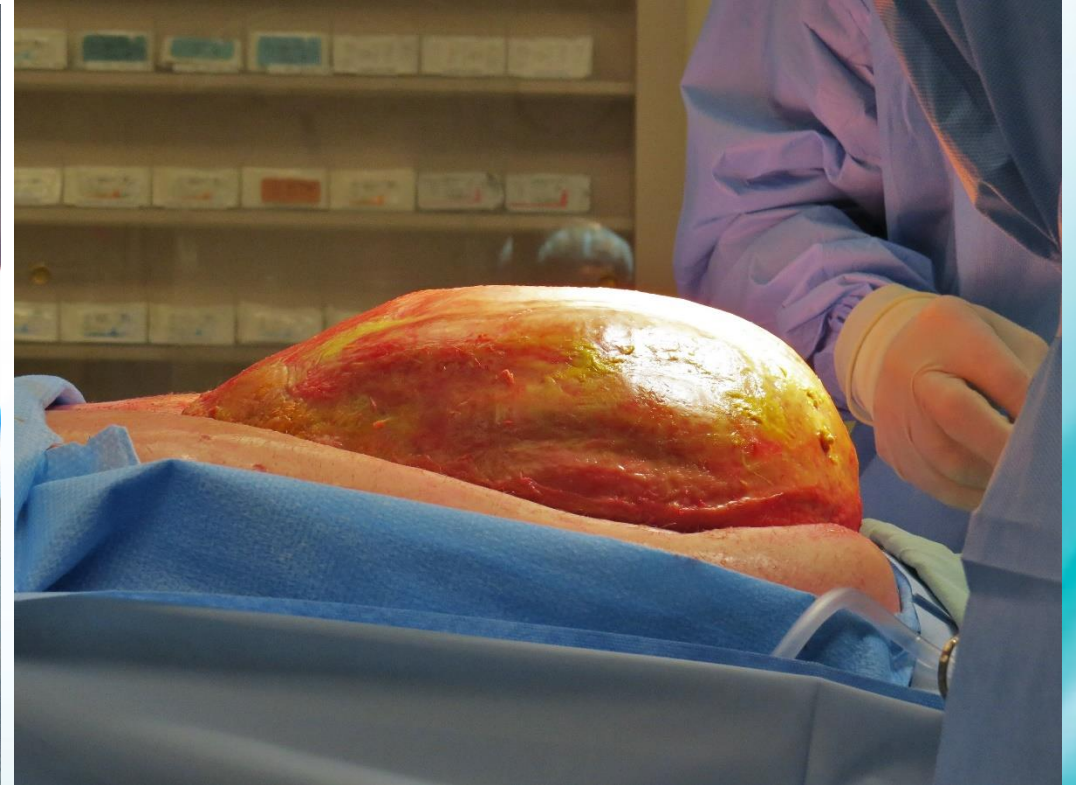
## BRITISH COLUMBIA, CANADA

- 46 yr old male suffered blunt force trauma to abdomen resulting from crashing Mtn bike with handle bar driving into his abdomen.
- Injuries included ruptured spleen, kidney and bowel.
- Rescue Laparotomy performed – abdomen not closed. After several days of NWPT the ABRA Abd device was placed.
- 1 week post-ABRA the patient's Abd became septic and surgical team elected to remove the ABRA in order to perform regular washouts in the OR. Wound edges became severely retracted and continuous VAC created a complete granulated tissue coverage of the protruding Abd contents. A large fistula on the colon also developed, which was largely inaccessible because of the granulated mass of bowel.
- Consultation and further discussion about value of ABRA resulted in a second ABRA placement with double elastomers, with the intent of regaining Abd domain and set wound edges closer together while still returning to the OR for washout. In the OR ABRA elastomers were loosened and silicone viscera protector removed, cleaned and replaced for each washout, and elastomers reset. Adjustments to elastomer tension were managed with the intent of keeping the wound edges close but not closed. During this phase the patient was transitioned from ICU to HAU and finally to a Surgical Ward bed. Once moved to a ward bed the patient was mobile and ambulatory.
- 1 month post- 2<sup>nd</sup> ABRA (Nov 8) the patient had stoma created and wound was closed and reinforced with retention sutures. As of Nov 13<sup>th</sup> the patient remains hospitalised and NPO but is otherwise in good spirits under the circumstances. Follow up visits will continue to monitor and record progress.

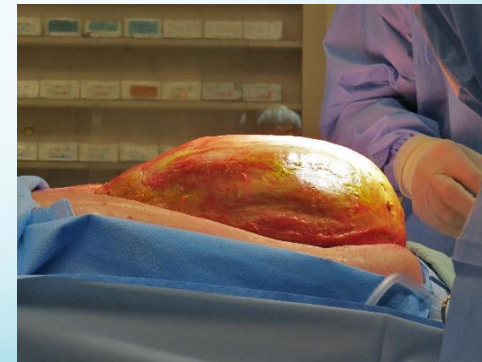
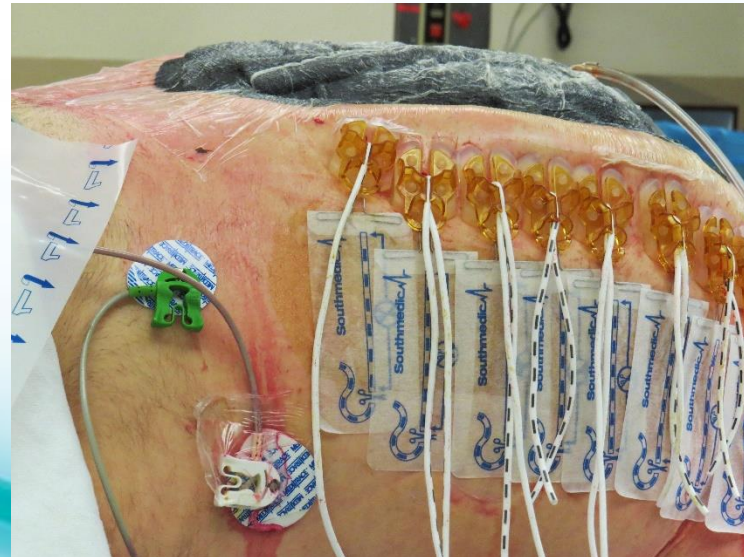
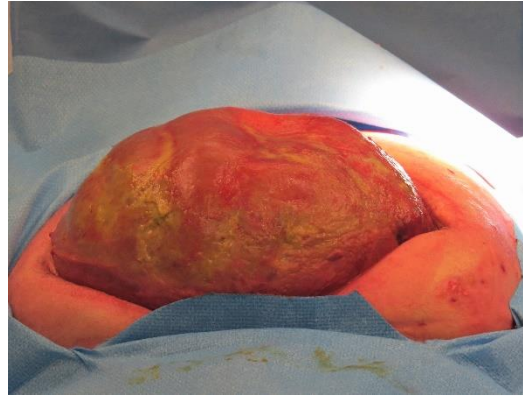
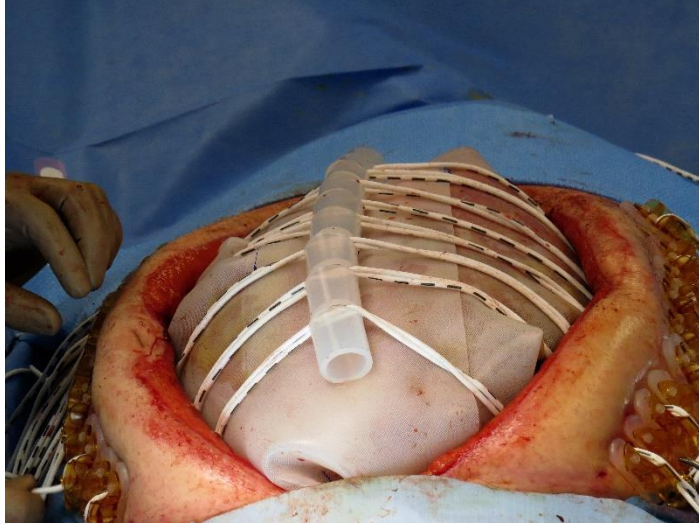
## ABRA INSTALLATION SEPT 13TH



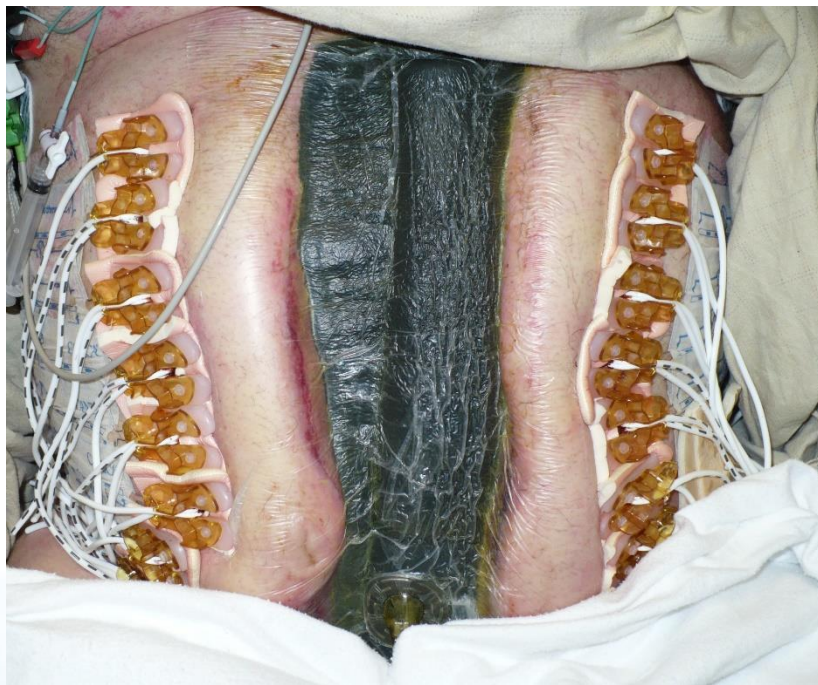
**ABRA REMOVED SEPT 19<sup>TH</sup> – RETURNED TO OR FOR 2<sup>ND</sup> ABRA OCT 3<sup>RD</sup>**



## 2<sup>ND</sup> ABRA INSTALLED OCT 3RD



**OCT 9TH**



**OCT 16TH**

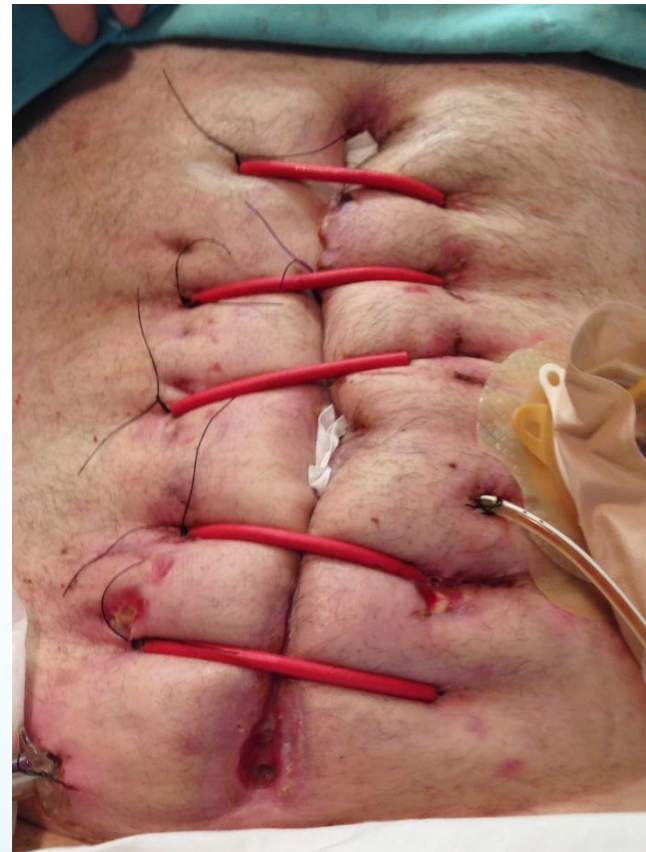


**OCT 22TH**





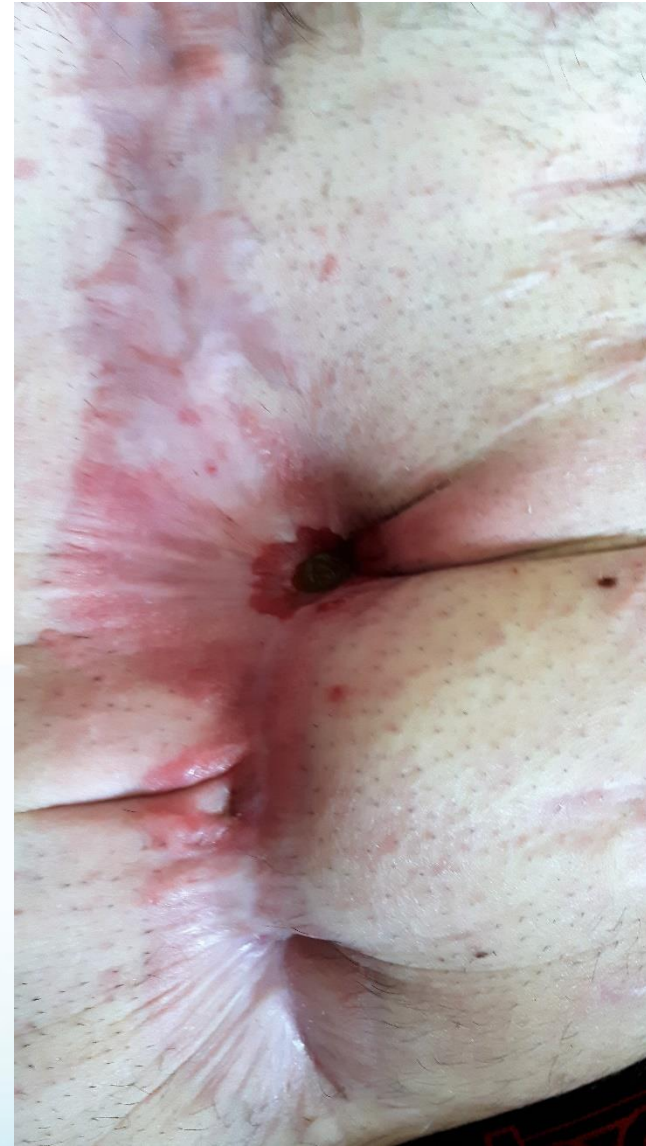
**NOV 6, 2015**



**NOV 13, 2015**



Jan 12, 2016



April 17, 2016