

Hemorrhagic pancreatitis with ACS



Patient

A 75-year-old female presented with an acute onset of epigastric pain radiating to both shoulders. There was no associated nausea, vomiting, diarrhea, fever or chills. Medical history included hypertension, hyperlipidemia, and hypothyroidism. Surgical history included a cholecystectomy (10 years prior) and a remote hysterectomy. There was no history of tobacco or alcohol use.

Diagnosis

Initial CBC and chemistries were within normal limits. Lipase level was at 104. An initial CT of the abdomen revealed peripancreatic edema (Figure 1). At 48 hours post admission, CT/CAP revealed a hemorrhagic pancreatitis and hemoperitoneum (Figure 2).

Management

Patient had an elevated amylase/lipase levels, acute blood loss anemia, thrombocytopenia, coagulopathy, hypotension, AKI, metabolic acidosis, acute respiratory distress syndrome (ARDS), and abdominal compartment syndrome (ACS). Damage control surgery was performed (Figure 3) and 3M™ AbThera™ Open Abdomen Negative Pressure Therapy was applied. 3M™ AbThera™ SensaT.R.A.C.™ Open Abdomen Dressing was placed intraoperatively into the open abdomen. The 3M™ AbThera™ Fenestrated Visceral Protective Layer (VPL) was trimmed to fit the size of the defect and tucked inside the abdominal wall to completely cover the viscera and protect abdominal contents (Figure 4). The 3M™ AbThera™ Perforated Foam was measured and cut to fit inside the protected abdominal cavity. The 3M™ V.A.C.® Drape (Figure 5) and 3M™ SensaT.R.A.C.™ Pad was placed over the dressing to create a seal. Continuous negative pressure was initiated at -125mmHg to remove exudate and help reduce edema. AbThera™ Therapy was used for a total of 3 days.

Washouts and dressing changes occurred at 48 and 72 hours. Component separation closure was performed at 72 hours after AbThera™ Therapy was removed. A 3M™ Prevena™ Incision Management System was applied over the clean, closed surgical incision for 3 days (Figure 6).

Discharge and follow-up

After 20 days in the SICU / acute care hospital, the patient was transferred to a long-term acute care facility. Patient continued to improve and was placed in rehabilitation. Patient subsequently returned home, but died a year later from urosepsis that was unrelated to surgery.

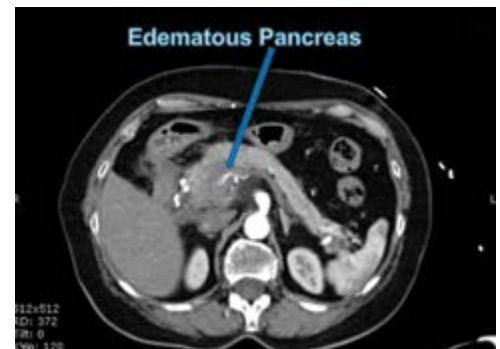


Figure 1. Edematous pancreas at CT on admission.



Figure 2. CT/CAP 48 hours post admission.



Figure 3. Damage control surgery



Figure 4. Application of 3M™ AbThera™ Fenestrated Visceral Protective Layer

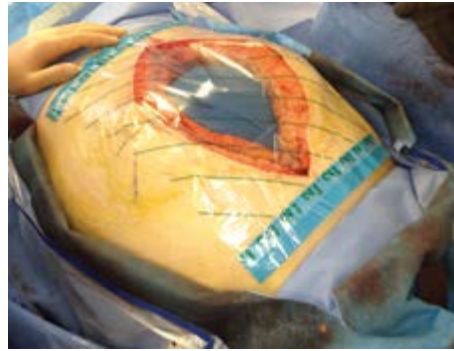


Figure 5. 3M™ V.A.C.® Drape

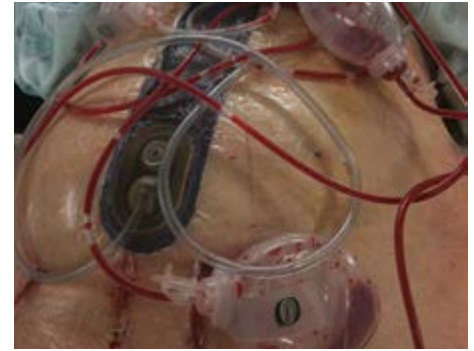


Figure 6. Application of 3M™ Prevena™ Therapy after component separation closure.

User experience

3M™ AbThera™ Open Abdomen Negative Pressure Therapy is a beneficial device that can be applied quickly, is simple to use and is effective in the management of the complex open abdomen patient.

Economic value

AbThera Therapy is an exceptional option for temporary abdominal closure (TAC). The ease of use of the system allows for rapid application and shorter operating times. The ability to apply the 3M™ AbThera™ SensaT.R.A.C.™ Open Abdomen Dressing at the patient's bedside in our surgical trauma unit has decreased operating cost and allowed a more timely response to our open abdomen patients.

Provided by

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As with any case study, the results and outcomes of this patient should not be interpreted as a guarantee or warranty of similar results. Individual results may vary depending on the patient's circumstances and condition.

3M™ AbThera™ SensaT.R.A.C.™ Open Abdomen Dressing and 3M™ AbThera™ Advance Open Abdomen Dressing are designed for use with the negative pressure wound therapy provided by the 3M™ V.A.C.® Ultra Therapy Unit. When using the V.A.C.® Ultra Therapy Unit, do not select the 3M™ Veraflo™ Therapy option. See instructions for use.

Note: Specific indications, contraindications, warnings, precautions and safety information exist for these products and therapies. Please consult a clinician and product instructions for use prior to application. This material is intended for healthcare professionals. Rx only.



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