The management of a surgical incision and drainage of abscess using ActivHeal® AquaFiber Ag

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Background

Non healing wounds are a significant burden to healthcare systems, where it is estimated that 4-5% of the adult population has a problem wound at any one time (Guest et al, 2017). The development of a wound infection can have potentially serious complications for patients. As well as delaying healing, wounds can rapidly deteriorate and, if left untreated, patients are at risk of septicemia and death (Newton, 2010). Accurate wound assessment is essential to detect early changes within the wound, surrounding skin, which may indicate a rise in bacterial levels. Infection is apparent when the sum of bacterial load and the virulence factors the bacteria produce are greater than the host’s immune defences, resulting in harm to the host. These are seen as the classic signs if infection (Swanson et al, 2014).

Advances Medical Solutions has a new antimicrobial fibre dressing in the ActivHeal® range called AquaFiber Ag, which includes both a flat and ribbon format to address the clinical needs of patients. The dressing releases silver ions in the presence of exudate and abnormal discharge. ActivHeal® AquaFiber Ag ribbon was applied as part of the treatment regime to reduce wound bioburden and manage exudate. The dressing was loosely packed within the wound and covered with a secondary dressing. The patient was also prescribed antibiotics. The dressing was changed daily due to the high levels of exudate. The ActivHeal AquaFiber Ag was selected to assist in reducing the risk of wound bioburden, absorb levels of exudate, maintain a moist wound environment, and promote healing.

Method

Patient MB, a 55 year old lady who was seen following an Incision and drainage of abscess and presented to the Tissue viability team. The dressing releases silver ions in the presence of exudate and abnormal discharge. ActivHeal® AquaFiber Ag ribbon was applied as part of the treatment regime to reduce wound bioburden and manage exudate. The dressing was loosely packed within the wound and covered with a secondary dressing. The patient was also prescribed antibiotics. The dressing was changed daily due to the high levels of exudate. The ActivHeal AquaFiber Ag was selected to assist in reducing the risk of wound bioburden, absorb levels of exudate, maintain a moist wound environment, and promote healing.

Initial assessment the wound measured 11.2cm in length, 2.2cm wide and 10.4cm deep and was covered with 5% necrotic tissue, 45% slough and 50% granulating tissue. The wound showed clinical signs of infection of erythema, heat, oedema, increased levels of exudate and abnormal discharge. ActivHeal® AquaFiber Ag ribbon was applied as part of the treatment regime to reduce wound bioburden and manage exudate. The dressing was loosely packed within the wound and covered with a secondary dressing. The patient was also prescribed antibiotics. The dressing was changed daily due to the high levels of exudate. The ActivHeal AquaFiber Ag was selected to assist in reducing the risk of wound bioburden, absorb levels of exudate, maintain a moist wound environment, and promote healing.

Significant progress was then noted in the wound, with the wound showing wound progression and a reduction in the clinical signs and symptoms of infection. All necrotic tissue had been removed and there were signs of new granulating tissue (60%) and 40% sloughy tissue. The wound size remained the same. The wound still showed signs and symptoms of infection, of erythema, heat, oedema and abnormal discharge, but they had reduced along with the levels of exudate indicating that the bacterial bioburden was reducing. Exudate levels were high however the peri wound skin was not macerated but remained infected. ActivHeal® AquaFiber Ag ribbon was reapplied along with an absorbent foam secondary dressing.

The wound measured 11.2 long, 2.2cm wide and 10.2 cm deep. The wound continued to show progression and the dressing assisting with the facilitation of debridement of sloughy tissue with the amount of sloughy tissue reducing to 20% sloughy tissue and 80% granulation tissue. The wound still showed signs of infection of erythema, heat, oedema, and abnormal discharge although of less severity. Therefore, indicating that the ActivHeal AquaFiber Ag was assisting in reducing bacterial bioburden of the wound. The dressing regime continued.

The wound measured 11.2 cm long, 2.2cm wide and 9.9 cm deep. The wound had progressed to 10% slough and 90% granulating tissue. The wound still showed some signs of infection. Exudate levels had reduced and no signs of maceration. ActivHeal® AquaFiber Ag dressing had assisted in reducing bacterial bioburden and levels of exudate and assisted in the autolytic debridement of devitalised tissue. The dressing was discontinued and NWTP was applied.

Conclusion

The ActivHeal AquaFiber Ag was found to be an appropriate dressing in the management of the abscess wound with moderate to high exudate levels. The dressing produced very positive patient outcomes. The correct dressing choice in this case enabled the patient to be managed quickly and effectively without an overly long treatment time and assisted in the management of clinical indications of exudate management and to prevent wound bioburden along with being safe and acceptable to the patient. The case study illustrates the importance of a holistic approach when caring for a patient with a challenging wound and ensuring that the correct diagnosis is made based upon a thorough assessment ensuring good clinical outcomes for the patient.

References


