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Infection

Summary

Infection can develop after any injury where the skin is breached. For this reason, wounds are often debrided, washed out and repaired in the operating room. This is **particularly true for contaminated wounds caused by bites, oyster shells or dirty tools.**

Treatment and Complications

The complications of wounds in some anatomical sites are so severe that all wounds should be operated upon. This includes **joints**, **particularly the flexed metacarpophalangeal joint** (**knuckle**), where a penetrating wound travels through skin, tendon and joint capsule. After the injury the finger is straightened and these structures glide to a new position trapping bacteria within the joint. **Septic arthritis can result, requiring multiple operations and extended antibiotics to clear the infection.**

The sheath of the flexor tendons is another anatomical space that should always be explored and washed out if there's any chance of infection. Bacteria becomes trapped, then travels within the sheath and along the tendon which has a limited blood supply. This allows the infection to track along the finger and into the palm. Given the confined space a compartment like syndrome can develop and lead to ischaemia. Septic tenosynovitis is one of the true emergencies in hand surgery.

