# Complications Of Cat Bite Injury Involving The Hand At Serdang Hospital.

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#### INTRODUCTION:

Cat bites were frequently presumed insignificant in our society, however their sharp teeth penetrate deeper, causing inoculation of bacteria and higher incidence of infection compared to other animals' bites.

## **MATERIALS & METHODS:**

A prospective cohort study was done on 26 patients who were admitted for cat bites in the hand in <u>Serdang Hospital</u> from January 2016 to December 2017. Demographic data and treatment details were analyzed. *QuickDASH* scores were done upon completed treatment.

### **RESULTS:**

There was equal 50% male and female, mean age 40.5 years (median 37.5). 57.7% were bitten by their pet. They took an average of 15.0 days to seek treatment in hospital. Only 11.5% of them seek treatment immediately in the hospital, whereas 19.2% did not until presented late, 69.2% took oral antibiotics prior to presentation. The average length of stay was 5.4 days. 65.4% required surgical intervention. 85.7% of wound cultures yielded no growth, whereas 14.3% growth Staph. aureus. Antibiotics given were Augmentin (92.3%),Cloxacillin (3.9%). cefuroxime (3.9%). Only 8 patients (30.8%) healed without complication. There was no correlation between blood infection markers. Diabetes mellitus with complication correlation p>0.05). (Spearman's Average follow-up was 7.8 weeks. Average *Ouick*DASH scores obtained upon completed follow-up was 4.59.

Table 1. Complications of cat bites in hand.

COMPLICATIONS	NO. OF
	CASES (%)
ABSCESS	7 (26.9)
CUTANEOUS	6 (23.1)
SPOROTRICHOSIS	
CELLULITIS	4 (15.4)
SEPTIC ARTHRITIS	3 (11.5)
FINGER STIFFNESS	3 (11.5)
SUPPURATIVE FLEXOR	2 (7.7)
TENOSYNOVITIS	
CHRONIC ULCER	2 (7.7)
SEPTIC ARTHRITIS	1 (3.8)
WITH SECONDARY	
OSTEOARTHRITIS	
SEPSIS WITH	1 (3.8)
THROMBOCYTOPAENIA	
LACERATED EXTENSOR	1 (3.8)
TENDON	

### **DISCUSSIONS:**

There was a significant delay in seeking treatment after cat bites, leading to high complication rates. Pre-admission oral antibiotics could be the cause of negative cultures. *Quick*DASH scores reflected patients have good functional outcome.

### **CONCLUSION:**

The implication of cat bites in hand can be debilitating and often underestimated. Public awareness and early surgical debridement is the key to effective treatment.

### **REFERENCES:**

**1.** DN Love et.al. Bacteriological warfare amongst cats: what have we learned about cat bite infections? Vet Microbiol. 2000 Jun 1;74(3):179-93.