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## An unusual lesion of the finger presenting to the emergency department

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## ABSTRACT

**INTRODUCTION:** Squamous cell carcinoma (SCC) of the finger, especially those arising from the nail bed matrix and lateral skin folds are common, especially after the fifth decade of life. A variety of aetiological factors and associations have been described. The appearance can be so ambiguous and appear benign that it can lead to a delay in presentation and diagnosis.

**PRESENTATION OF THE CASE:** We report a case of a 66 year old retired Engineer who presented to our Emergency Department with a 2-year history of a painless swelling of his left ring finger. Examination revealed a diffuse circumferential swelling of the left ring finger involving the middle and distal phalanx. The tip was insensate. The differential diagnoses included pyogenic granuloma, soft tissue sarcoma and chronic granulomatous infection. An excisional biopsy confirmed the diagnosis of a well differentiated squamous cell carcinoma.

**DISCUSSION:** This case highlights how digital squamous cell carcinoma can appear benign, mimic a wide variety of conditions leading to a delay in diagnosis and treatment. It usually runs an indolent course but can be locally destructive. Excisional biopsy, providing a clear margin where possible is usually sufficient in the absence of metastatic spread.

**CONCLUSION:** Chronic, non-healing lesions of the digits should be viewed with suspicion. Digital squamous cell carcinoma commonly mimics a variety of benign conditions and efforts should be made to rule out other possible diagnoses and to institute early treatment.

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## 1. Introduction

Squamous cell carcinoma (SCC) of the finger, especially those arising from the nail bed matrix and lateral skin folds are common, especially after the fifth decade of life.

A variety of aetiological factors and associations have been described.

Clinical presentation can mimic a host of conditions ranging from infections to neoplasms of bone and soft tissue. The appearance can be so ambiguous and appear benign that it can lead to a delay in presentation and diagnosis.

We present a case of a retired Engineer who presented with an unusual lesion in his left ring finger who was referred to us following a delayed presentation to his General Practitioner.

## 2. Presentation of the case

We present a case of a 66 year old retired Engineer who presented to our Emergency Department with a 2-year history of a painless swelling of his left ring finger.

According to the patient, it all started as a small lesion around the finger tip. He thought nothing of it and expected it to resolve spontaneously. He did not seek medical attention at this time.

He further stated that the lesion got progressively larger over the subsequent 12 months and the finger started becoming deformed and slightly painful. He still did not seek medical help at this stage believing it will resolve. He self-managed the lesion by applying dressings and taking pain killers. He only presented to the ED when the swelling increased in size associated with a foul smelling discharge.

He smoked approximately 15 cigarettes per day and only drank alcohol occasionally.

Examination revealed a diffuse circumferential swelling of the left ring finger involving the middle and distal phalanx with a lobulated firm to soft surface. There were multiple sinuses some of

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Fig. 1.



Fig. 2.



Fig. 3.

which had healed and some discharging foul smelling serous fluid. The tip was insensate.

The metacarpo-phalangeal joint function was normal whereas the proximal interphalangeal joint was held in fixed flexion at approximately 85° with no movement whatsoever. The distal interphalangeal joint was engulfed in the mass. A provisional diagnosis of a fungating neoplasm to rule out a chronic granulomatous infection was made [Figs. 1 and 2](#).

He had an X-ray of the left hand and left ring finger which revealed a soft tissue swelling with complete destruction of the distal phalanx and partial destruction of the middle phalanx [Figs. 3 and 4](#).

He was admitted for further investigations. He was commenced on intravenous antibiotics, and he had blood samples sent for routine tests and inflammatory markers. These all returned normal. Wound swabs grew mixed skin flora. No fungus was isolated.

An MRI scan of the finger showed an almost total destruction of the distal phalanx with attenuation of the tendons by the mass [Fig. 5](#).

Whole body nuclear magnetic isotope scan showed an increased uptake around the middle phalanx of the left ring finger. The rest of the isotope scan did not reveal any pathological uptake.

A guillotine amputation was undertaken across the base of the middle phalanx of the ring finger and the whole sample sent for histology. Histological examination revealed a well differentiated

squamous cell carcinoma with a tumour-free margin. The stump was left to heal by secondary intention with a view to flap closure in due course.

### 3. Discussion

Squamous cell carcinoma (SCC) of the finger, especially those arising from the nail bed matrix and lateral skin folds are more common after the fifth decade of life.

Clinical presentation can mimic a host of lesions ranging from infections to neoplasms of bone and soft tissue. The presentation can be so ambiguous that it can lead to a delay in presentation and diagnosis.

The course of the disease can be indolent and diagnosis may not be made for up to 14 years [\[1\]](#). Our patient only sought medical attention 2 years after the initial appearance of the lesion.

Various aetiological factors have been described including trauma, chronic infection (including viral infection) and radiation. Eliezri reported that they found the Human Papilloma Virus (HPV) 16 DNA which is restricted to neoplasms of the genital tract and finger using either the filter or in-situ hybridization technique [\[2\]](#).

Ashinoff et al. reported the use of polymerase chain reaction (PCR) to isolate the HPV type 16 in some of these tumours. In-situ hybridisation technique failed to identify HPV 16 in any of their patients [\[3\]](#).

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