

**CC:** 42 year old male with rash and unilateral neck swelling

**HPI:** Swelling of right jaw 5 days ago . Itchy spot on right cheek, it oozed blood after scratching. Swelling later spread to right eye, neck and chest.

Denies dyspnea, wheezing, chills, fever, odynophagia, night sweats.

**Past Medical History:** Nil

**Meds:** Nil

**Family History:**

**Social History:** Kenya (Rift valley area),Aldoret

**Health Related Behaviours:** Occasional smoking, Farmer, Bought a carcass recently. Other five people accompanying him died

**Allergies:** nil

**Vitals:** T:38.8 HR:72 BP:110/60 mm Hg RR: SpO<sub>2</sub>:100 % on RA

**Exam:**

**Gen:** Anxious, breathing comfortably, no stridor

**HEENT:** no thrush, PERRL, hemorrhagic vesicles at corner of mouth, Rt eye swollen shut, Rt supraclavicular fullness

**CV:** nl

**Pulm:** -

**Abd:** -

**Neuro:** -

**Extremities/Skin:** Rt lower jaw- black scar

**Notable Labs & Imaging:**

**Hematology:**  
WBC: 11.3k (74%PMN, 19% Lymphocytes, 7% Monocytes) Hct: 46.3% Plt: 111k

**Chemistry:**  
Na: K: Cl: CO2: BUN: Cr: glucose: Ca: Phos: Mag: AST, ALT, Alk-P- Normal T. Bili: Albumin: HIV+

**Imaging:**  
EKG:  
CXR:

**Clinical dx- Cutaneous Anthrax**  
IV Ciprofloxacin given- Fever and neck swelling resolved over 4-5 days.

**Problem Representation:**

**ENG:** Middle-age male w/ remarkable exposure to cattle. Presents w/ unilateral rash, neck swelling with a R-lower jaw black scar surrounded by edema.

**ESP:** Paciente de mediana edad con exposición importante a ganado vacuno, presenta con erupción unilateral e hinchazón en la mandíbula con una costra necrótica rodeada de edema.

**POR:** Paciente feminino de 42 anos com exposição significativa a bovinos, apresenta erupção cutânea unilateral e inchaço na mandíbula com crosta necrótica circundada por edema.

**Teaching Points (Kiara):**

- **Neck swelling: Characterize it** → Skin (Abscess, lipoma), congenital, lymph node, thyroid, vascular, airway, nerve, pulm. **Infection** (CMV, HIB, EBV, mumps, HIV, kawasaki, bartonella-arm, cervical, TB, Tularemia, antrax, malignancy (lymphoma). Imaging will narrow the Dx.
- **Cow-related:** Anthrax, tularemia, brucellosis, q fever, kala azar, coxiella, hemorrhagic fever, cryptosporidium, Rift Valley fever.
- **Skin Ulcer: Viral, bacteria (environment-mycobacteria like TB, leprosy/zoonotic-Yersinia, Tularemia, Anthrax/ spirochetes), fungi, and others.**
- **Tularemia:** Many ways to get (inhalation, direct contact, ingestion, bite of tick or fly). Presents as cutaneous ulcer and marked lymphadenopathy, depend on the way of transmission.
- **Antrax:** Hyperacute hemorrhagic symptoms w/ black scar surrounded by edema. Inhalation the most deadly.
- **HIV + and skin manifestations:** Kaposi sarcoma, Bartonella.